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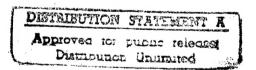
OF THE

ENVIRONMENTAL DATA FOR AIR-OVER-GROUND RADIATION TRANSPORT (1992 - 1993)

CRAIG R. HEIMBACH RADIATION SIMULATION AND ANALYSIS DIRECTORATE

U.S. ARMY ABERDEEN TEST CENTER ABERDEEN PROVING GROUND, MD 21005-5059

**APRIL 1996** 



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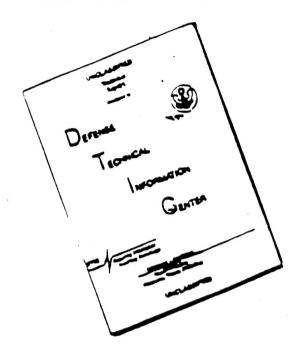


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Radiation transport measure previously reported. This reactor run sheets which contains the same of th	repo	rt contains weather da	ta, ground moisture		
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## ENVIRONMENTAL DATA FOR AIR-OVER-GROUND RADIATION TRANSPORT (1992 - 1993)

#### CRAIG R. HEIMBACH U.S. ARMY ABERDEEN TEST CENTER ABERDEEN PROVING GROUND, MD 21005-5059

Radiation measurements have been made to investigate neutron and gamma-ray transport in an air-over-ground geometry<sup>1</sup>. The radiation source was the research reactor at Aberdeen Proving Ground (APG), Maryland. Measurements were made from 60 to 2000 meters from the source.

Due to the long distances involved, the exact parameters of the atmosphere could have an effect on the transmission of radiation. In addition, ground moisture could affect the thermal neutron and secondary gamma-ray levels.

The run sheets used for the various experiments define most of the parameters of the radiation source. This includes the times and power levels of each run, as well as diagnostics which ensure the integrity of the runs.

In the interest of documenting the information required to interpret the radiation measurements, the run sheets, the weather data, and the ground moisture measurements are listed in Appendix A. This report should be used as a supplement to Reference 1.

<sup>&</sup>lt;sup>1</sup> Research Report of the Radiation Transport in Air-Over-Ground Geometry (Summary 1992-1993), C.R. Heimbach, M.A. Oliver, M.B. Stanka, ATC-7793, 1995.

# Weather

#### SAMS Hourly Summarized Data Report

Elevation(ft): 24

Latitude : 39.50 29 APR 1991 Main Front

Latitude : 39.50 Longitude : 76.13

Time hhmm		Temp	Pt	IJD	WS	Und Spd	Dir	Altim -eter in Hg		Press.	ж *			Min Tmpl	JBGT F
100	1020.3	54.5	51	89	5	13	19	30.13	1.2487	30.103	88	0.00	55	54	51
200	1020.4	54.1	51	80	5	12	18		1.2497		89	0.00	54	54	51
300	1020.4	53.6	51	66	6	12	16	30.13	1,2507	30.105	90	0.00	54	54	49
400	1020.3	53.6	51	70	5	11	16	30.13	1.2509	30.103	91	0.00	54	54	50
500	1020.2	53.4	51	80	6	14	16	30.13	1.2513	30.101	93	0.00	54	53	48
600	1020.4	52.9	51	25	6	12	16	30.13	1.2526	30.107	95	0.00	53	53	49
200	1020.6	53.4	52	<i>7</i> 5	5	10	18	30.14	1.2518	30.111	95	0.00	54	53	50
800	1020.8	54.0	52	82	4	10	19	30.15	1.2506	30.119	93	0.00	54	54	52
	1020.8		52	68	4	9			1.2502		93	0.00	55	54	53
	1020.7			72	4	8			1.2505		96	0.00	55	54	<b>5</b> 3
	1020.5	55.5		74	5	11			1.2470		96	0.00	56	55	52
	1020.5		56	75	3	9			1.2424			0.00	59	56	57
	1019.8	59.6		78	4	8			1.2368			0.00	60	59	59
	1019.5		58	61	5	10			1.2335			0.00	62	60	58
	1019.3		58	82	5	11			1.2320		89	0.00	62	61	59
	1019.2		58	103	3	9			1.2321		89	0.00	62	61	61
	1019.0	61.4		107	4	9			1.2319		89	0.00	62	61	61
	1018.6		58	100	5	11	-	_	1.2316		89	0.00	62	61	59
	1018.8		57	106	4	11			1.2344		90	0.00	61	60	59
	1019.1			110	5	10			1.2365		91	0.00	60	59	52
	1019.2			107	4	10			1.2388		93	0.00	59	58	<b>5</b> 8
	1019.4			118	3	2			1.2403		95	0.00	58	58	58
	1018.8	57.4			3	2			1.2407			0.00	58	57	57
2400	1018.4	56.8	56	114	2	5	22	30.07	1.2417	30.048	96	0.00	57	57	57
Min	1018.4	52.9	51		2	5	15	30.07	1.2316	30.048	88	0.00	53	53	48
Ave	1019.8	57.0	55	85	4	10	19	30.11	1.2428	30,088	92	0.00	57	57	55
Max	1020.8	61.5	58		6	14	24	30.15	1.2526	30.119	96	0.00	62	61	61
STD	. 4	3.1	3		1	2	2	. 02	.0077	.023	3	0.00	3	3	4
Tot												0.00			

## APG Surface Observations EST [Add one hour for EDT] SAMS Hourly Summarized Data Report

Elevation(ft): 24 Latitude : 39.50 30 APR 1991 Main Front

: 76.13 Longitude

Time hhmm	Sea Lo Press mb		Pt	WD	ws	Wnd Spd	Dir	-eter		Sta. Press. in Hg	RH %	Pre- cip in		Min Tmpld F	BGT F
100	1017.7	56.5	56	118	2	7	23	30.05	1.2415	30.027	97	0.00	57	56	57
200	1017.1	56.3	56	90	3	6	21	30.03	1.2412	30.008	98	0.00	56	56	56
	1016.4	56.3	56	101	3	7	17	30.01	1.2404	29.988	98	0.00	56	56	56
	1015.6	56.2	56	96	3	8	18		1.2395		98	0.00	56	56	56
500	1014.4	56.2		84	4	9			1.2382		98	0.00	56	56	55
600	1014.5	56.4		9	3	10	15	29.96	1.2378	29.933	99	0.00	57	56	56
700	1015.0	56.9	57	55	3	6	19	29.97	1.2373	29.946	99	0.00	57	57	57
800	1014.9	56.9	57	73	4	7	17	29.97	1.2372	29.943	99	0.00	57	57	57
900	1014.6	57.5	57	88	3	6	28	29.96	1.2357	29.936	99	0.00	58	57	57
1000	1014.7	58.9	58	16	1	3	24	29.96	1.2327	29.936	99	0.00	60	58	<b>5</b> 9
1100	1014.7	60.5	60	212	2	4	29	29.97	1.2292	29.939	98	0.00	62	59	60
1200	1014.0	61.9	61	188	2	5			1.2253	_	97	0.00	62	6.5	62
1300	1013.5	65.1	63	258	4	8	28	29.93	1.2178	29.903	94	0.00	68	62	64
1400	1013.1			249	3	9	37		1.2066		_	0.00	72	68	70
1500	1012.6	73.3	68	231	4	8	26	29.90	1.1990	29.877	82	0.00	<i>7</i> 5	71	73
1600	1011.9	71.4	66	166	4	7	19	29.88	1.2020	29.855		0.00	73	71	71
1700	1011.5	<b>73</b> .1	67	193	4	8	16	29.87	1.1982	29.845		0.00	74	72	73
1800	1011.1	73.8	68	216	3	7	11	29.86	1.1964	29.832	82	0.00	<i>7</i> 5	73	74
1900	1011.1	74.0			2	4			1.1960			0.00	<b>75</b>	71	74
	1011.8	68.1			1	2			1.2092			0.00	71	66	68
2100	1012.2	65.4			1	2			1.2156		-	0.00	66	65	65
	1012.6	63.9			1	3			1.2193			0.00	65	63	64
	1012.5	63.4	_	-	1	2			1.2202		_	0.00	64	63	63
2400	1012.6	60.5	59	191	2	4	26	29.90	1.2265	29.877	96	0.00	63	59	61
Min	1011.1	56.2			1	2			1.1960			0.00	56	56	55
Ave	1013.8	63.0		152	3	6	23		1.2226			0.00	64	62	63
Max	1017.7	<b>74</b> · 0	69		4	10	37	30.05	1.2415	30.027	99	0.00	<i>7</i> 5	<i>7</i> 3	74
STD	1.7	6.6	5		1	2	'7	. 06	.0162	. 055	6	0.00	7	6	7
Tot												0.00			

## APG Surface Observations EST [Add one hour for EDT] SAMS Hourly Summarized Data Report

Elevation(ft):

24 39.50 1 MAY 1991 Latitude :

Longitude : 76.13

Tot

Main Front

.04

	_														
							STD								
	Sea Lv	Air	Dω	Ave	Au	Wnd	Wnd	Altim	Dens-	Sta.		Pre-	Max	Min	WBG
Time	Press	Temp	Pt	WD	ພຣ	Spd	Dir	-eter	ity	Press.	RH	cip	Tmp	Tmp	Tmp
hhmm	шp	F	F	deg	kt	kt	deg	in Hg	kg/m3	Press. in Hg	*	in	F	F	F
										_					
100	1012.7	57.5	57	328	1	3	29	29.90	1.2333	29.878	97	0.00	60	56	
200	1012.7	56.2	55	16	2	5	13	29.91	1.2360	29.879	96	0.00	57	56	
300	1012.5	53.4	51	149	1	3	21	29.90	1.2417	29.872	90	0.00	56	52	
400	1012.5	51.2	49	331	1	4	33	29.90	1.2469	29.874	93	0.00	52	5.0	
500	1012.7	54.3	46	10	3	5			1.2391		25		56	52	
600	1012.9	51.8	48	188	1	3	34	29.91	1.2457	29.886	86	0.00	54	50	
700	1013.2	57.7	54	217	1	3	22	29.92	1.2329	29.894	87	0.00	64	53	
800	1013.1	67.6	56	230	1	3	22	29.92	1.2099	29.891	66	0.00	7ů	64	
900	1013.0	72.2	52	190	3	7	22	29.91	1.1985	29.888	48	0.00	74	70	
	1012.7	72.2			5	10	22	29.91	1.1979	29.879	46	0.00	73	72	
1100	1012.4	74.6			5	11	23	29.90	1.1924	29.871	45	0.00	76	73	
	1011.7	77.2			6	13	23	29.88	1.1859	29.849	42	0.00	78	26	
	1010.4	<b>79</b> .0	53	178	6	12			1.1805		40	0.00	80	<i>7</i> 8	
	1009.2	79.7			7	14	17	29.80	1.1776	29.776	39	0.00	80	<i>7</i> 9	
	1008.3	79.9			9	16	15	29.78	1.1764	29.750		0.00	81	79	
	1007.2	78.3			10	16	12	29.74	1.1786	29.716	44	0.00	79	78	
	1006.3	<i>77</i> .9			9	15	13	29.72	1.1784	29.691	43	0.00	<i>7</i> 9	77	
	1005.5	76.1			7	15	12	29.69	1.1812	29.667		0.00	77	<i>7</i> 5	
	1005.6	<i>7</i> 2.8			4	8	19	29.69	1.1881	29.668	44	0.00	<i>7</i> 5	<b>70</b>	
	1007.3	65.6			6	20			1.2077		72	.04	20	63	
	1007.9	61.3		7	3	10			1.2187			0.00	63	60	
	1007.7	58.2		358	1	3			1.2256			0.00	60	57	
	1008.0	56.8			0	2			1.2290			0.00	52	56	
2400	1008.5	55.3	54	118	1	2	45	29.78	1.2329	29.754	97	0.00	56	54	
Min	1005.5	51.2	46		0	2	12	29.69	1.1764	29.667	39	0.00	52	50	
Ave	1010.2	66.1	53	202	4	9	23	29.83	1.2098	29.804	67	. 00	68	65	
Max	1013.2	<i>7</i> 9.9	58		10	20	45	29.92	1.2469	29.894	97	. 04	81	79	
STD	2.8	10.5	3		3	6	8	. 08	.0255	. 080	24	. 01	10	11	

#### SAMS Hourly Summarized Data Report

2 MAY 1991 H-Field

Elevation(ft): 12 Latitude : 39.30 Longitude : 76.27

Time hhmm	Sea Lv Press mb	Temp	Pt	WD	WS	Wnd Spd	Dir	-eter		Sta. Press. in Hg	ВH	cip		MinWBG TmpTmp F F
100	1009.0	58.1	56	319	4	7	15	29.80	1.2277	29.782	94	0.00	59	57
200	1009.5	57.6	56	321	4	7	9	29.81	1.2297	29.798	95	0.00	58	57
300	1010.1	58.7	57	332	4	9	15	29.83	1.2280	29.816	94	0.00	59	58
400	1010.7	58.1	56	351	4	6	17	29.85	1.2297	29.832	93	0.00	59	57
500	1011.1	56.8	55	322	3	4	10	29.86	1.2333	29.845	94	0.00	58	56
600	1011.7	55.8	55	313	3	4	11	29.87	1.2361	29.861	95	0.00	56	55
700	1012.0	59.5	55	273	6	11	12	29.88	1.2279	29.871	86	0.00	61	56
800	1012.2	62.3	49	285	8	15	11	29.89	1.2204	29.876	61	0.00	63	61
900	1012.0	64.2	45	285	11	21	14	29.88	1.2151	29.871	49	0.00	65	64
1000	1011.8	65.0	43	291	11	22	15	29.88	1.2128	29.865	45	0.00	66	64
1100	1011.4	65.6	43	285	13	23	13	29.87	1.2109	29.855	44	0.00	67	64
1200	1010.9	66.4			13	25	14	29.85	1.2082	29.838	42	0.00	68	65
1300	1010.3	67.2		283	14	25			1.2057		39	0.00	68	66
	1010.1	67.9			13	23			1.2038		38	0.00	70	67
	1009.8	68.5		289	14	26			1.2019			0.00	69	67
	1009.6	68.4			13	25	_		1.2019			0.00	69	67
	1009.8	68.0			12	22			1.2030			0.00	69	67
1800	1010.1	67.3		304	12	22			1.2047		33	0.00	69	66
1900	1010.4	65.4		305	10	23			1.2093		34	0.00	66	64
2000	1010.7	63.7			5	12			1.2136		36	0.00	64	63
2100	1010.7	61.7	37	326	1	4	13	29.85	1.2185	29.834	40	0.00	63	60
2200	1010.7	60.3		327	2	6			1.2217		43	0.00	61	60
	1010.4	56.2			2	3			1.2313			0.00	60	54
2400	1010.3	52.4	43	286	2	3	9	29.83	1.2407	29.821	70	0.00	54	51
Min	1009.0	52.4			1	3			1.2019			0.00	54	51
Ave	1010.6	62.3		296	8	15			1.2182			0.00	63	61
Max	1012.2	68.5	57		14	26	17	29.89	1.2407	29.876	95	0.00	70	67
STD	.7	4.8	8		5	9	2	. 01	.0121	.029	25	0.00	5	5
Tot												0.00		

## APG Surface Observations EST [Add one hour for EDT] SAMS Hourly Summarized Data Report

Elevation(ft): 24 Latitude : 39.50 Longitude : 76.13

Main Front 3 MAY 1991

Time	Sea Lv Press mb	Temp	Pt	(JD	WS	Wnd Spd	Dir	-eter	Dens- ity kg/m3	Press.	RH %			MinWBG TmpTmp F F
100	1010.4	49.8	44	38	1	3			1.2469		81		50	49
200	1009.4	47.8	43	23	2	4	20	29.81	1.2503	29.781	83	0.00	49	46
	1010.8	50.1	43	327	7	26	12	29.85	1.2466	29.824	77	0.00	54	46
	1011.6	52.5	44		9	28	12	29.87	1.2417	29.846	73	0.00	54	51
500	1011.4	50.2	46	250	5	9	9	29.87	1.2474	29.839	85	. 01	51	50
600	1011.5	49.5			5	8	9	29.87	1.2492	29.842	89	0.00	50	49
	1012.0	51.7			6	13		29.88			85	0.00	54	50
	1012.6	53.7		319	8	15			1.2402		74	0.00	56	53
	1013.2	55.5			10	19			1.2363		62	0.00	5 <i>7</i>	54
	1014.0	56.7	42		10	18			1.2343		57	0.00	58	56
	1014.4	58.5	41	319	11	20			1.2302		52	0.00	60	56
	1014.2	60.8	41	310	9	19			1.2246		49	0.00	62	60
1300	1013.8	62.4	42	314	10	21			1.2204		48	0.00	64	61
	1013.4	64.5	43	314	10	24			1.2153		46	0.00	65	64
1500	1013.1	65.3	43	326	10	19			1.2130		44	0.00	66	65
	1013.1	66.1	43	308	9	17			1.2112		43	0.00	67	65
	1013.0	66.3	42	317	10	18			1.2106		42	0.00	67	66
	1013.5	66.2	42	309	8	16	16	29.93	1.2113	29.903	41	0.00	67	66
	1013.9	63.9	41	315	5	13			1.2168		42	0.00	66	61
2000	1014.3	58.0	39	308	4	6			1.2312		49	0.00	61	56
	1014.6	54.5	40	304	2	5			1.2401		58	0.00	56	52
	1014.9	52.5	42	6	5	11			1.2454		67	0.00	55	51
	1015.6	54.4	41	6	5	11			1.2416		61	0.00	55	53
2400	1016.1	52.7	40	5	7	13	18	30.01	1.2461	29.979	62	0.00	53	52
Min	1009.4	47.B	39		1	3			1.2106		41	0.00	49	46
Ave	1013.1	56.8	43	319	7	15			1.2331		61	.00	58	56
Max	1016.1	66.3	47		11	28	30	30.01	1.2503	29.979	89	. 01	67	66
STD	1.5	6.2	2		3	7	5	. 05	.0140	. 050	16	. 00	6	6
Tot												. 01		

#### SAMS Hourly Summarized Data Report

Elevation(ft): 24

Latitude : 39.50 Longitude : 76.13 4 MAY 1991 Main Front

Time hhmm	Sea Lo Press mb	Temp	Pt	WD	ωs	Wnd Spd	Dir			Press.	RH %			MinWBG TmpTmp F F
100	1016.4	51.2	39	4	6	13	18	30.01	1.2502	29.987	63	0.00	52	50
	1016.8	48.3	38	26	2	8			1.2576		67	0.00	49	47
	1017.0	45.0	38	311	2	5	41	30.03	1.2661	30,007	77	0.00	47	43
400	1017.0	42.5	39	244	1	4	40	30.03	1.2725	30.007	87	0.00	43	42
500	1017.1	42.6	38	4	2	4	13	30.03	1.2722	30.007	85	0.00	43	42
600	1017.9	43.1	39	182	1	2	21	30.06	1.2722	30.031	87	0.00	46	42
700	1018.7	51.3	44	341	3	7	23	30.08	1.2534	30.055	76	0.00	55	46
800	1019.0	55.5	43	353	6	12	19	30.09	1.2433	30.065	63	0.00	57	<b>5</b> 5
900	1018.9	58.3		354	6	11	21		1.2366		59	0.00	59	57
1000	1018.7	61.5			6	12			1.2290		54	0.00	63	59
1100	1018.4	63.1	44	346	6	13			1.2246		49	0.00	64	63
1200	1017.9	65.0			5	13			1.2196		47	0.00	66	64
	1017.2	67.3			4	15			1.2135		43	0.00	69	66
	1016.9	67.1			5	11			1.2138			0.00	69	66
	1016.6	68.2			5	10			1.2109		44	0.00	69	67
	1016.6	66.7			5	10			1.2141		44	0.00	69	66
	1016.4	68.0			4	8			1.2110			0.00	69	66
	1016.6	68.6			3	6			1.2100			0.00	69	68
	1016.8	65.2			1	3			1.2182			0.00	68	61
	1017.4	52.2			2	3			1.2368			0.00	61	55
	1018.2	54.9		219	2	3			1.2445			0.00	55	54
	1018.6	53.9		180	1	2	_		1.2474				54	52
	1018.8	50.6			1	2			1.2559			0.00	52	50
2400	1019.0	48 . 8	47	292	1	1	14	30.09	1.2603	30.064	95	0.00	50	48
Min	1016.4	42.5			1	1	_		1.2100			0.00	43	42
Ave	1017.6	56. <del>'9</del>	-	333	3	8			1.2389			0.00	58	55
Max	1019.0	68.6	48		6	15	41	30.09	1.2725	30.065	95	0.00	69	68
STD	1.2	9.1	3		2	4	10	. 02	.0219	.013	18	0.00	9	9
Tot												0.00		

#### SAMS Hourly Summarized Data Report

Elevation(ft): Latitude : Longitude : 39.50 5 MAY 1991 Main Front

: 76.13

						Pk	STD							
	Sea Lv								Dens-					MinWBG
Time	Press							-eter		Press.	RH	cip	Tmp	TmpTmp
hhmm	шp	F	F	deg	kt	kt	deg	in Hg	kg/m3	in Hg	*	in	F	FF
100	1010 1	47.6	47		0	2	_	20 00	1.2634	20 066	0.0	0.00	48	47
	1019.1 1019.0	46.5		19	1	2			1.2659		97		47	46
		45.5		13	1	3			1.2688		98	0.00	46	45
	1019.5	45.1°			1	3			1.2699		98	0.00	46	45
	1019.6	43.1				2			1.2734		98	0.00	45	43
	1020.2			310	1	2			1.2670		98	0.00	52	44
	1020.5		46	47	0	8			1.2468		88	0.00	58	52
	1021.0	55.7		47	4	9			1.2394		69	0.00	59	58
	1021.0	58.5		61	4	8	15 25		1.2394		64		65	59
	1020.9	63.0		68	3				1.2226		58	0.00	67	65
	1020.7	65.6			4	10	29		1.2226		50	0.00	20	67
	1020.7	68.8			3	2							73	70
	1020.6	71.6			3	9			1.2087		47	-	73 73	70 71
	1020.0	72.2			4	9			1.2065		45	0.00		71
	1019.5	72.5			4	9			1.2053		46	0.00	74	
	1018.3	74.1			4	9			1.2005		45	0.00	<i>7</i> 5	73
	1017.7	74.5			3	9			1.1988		43	0.00	<i>7</i> 5	73
	1017.5	72.1			5	10			1.2039		48	0.00	<i>7</i> 5	71
	1017.3	69.7			3	7			1.2095		52	0.00	71 69	69 68
_	1017.4	68.2			4	В	_		1.2128		55	0.00		
	1017.3	66.8			4	10			1.2158		56	0.00	68	66
	1017.6	66.2		147	5	11			1.2171		52	0.00	67	65
	1017.6	64.7			5	11			1.2205		53	0.00	65	64
	1017.1	63.7			4	12			1.2223			0.00	64	63
2400	1016.6	62.2	50	125	3	9	20	30.02	1.2256	29.995	64	0.00	63	59
Min	1016.6	43.9	43		0	2	5	30.02	1.1988	29.995		0.00	45	43
Ave	1019.0	61.9	49	143	3	7			1.2295		66	0.00	63	61
Max	1021.0	74.5	54		5	12	35	30.15	1.2734	30.125	98	0.00	75	73
STD	1.7	10.5	3		1	3	8	. 05	.0254	. 043	21	0.00	10	11
Tot												0.00		

#### SPESUTIE ISLAND OBSERVATION SITE

\*Times listed are real time - no corrections are necessary\*

-inues I	12560	are real time - no corrections	are necessar	<u> </u>		
				TOTAL		
DATE	TIME	SKY CONDITION	VISIBILITY	SKY	TOTAL	KEY
	TIME			COVER	OBLOVE	
1991	<u> </u>	(x 100 = Height in feet)	(Hiles)	1/10's	0	
29 Apr	0800	120	7	10	10	GF= Ground Fog
7	0900	120	5=	10	10	F= Fog
	1000	5€	114L-F	10	10	H- Haze
l!	1100	6012D	. 4F	10	10	K= Smoke BS= Blowing Snow
r	1200	80/20	5F	10	10	BN= Blowing Sand
	1300	120	6F	10	10	BD- Blowing Dust
	1400	120	6F	10	10	IF= Ice Fog
	1500	120	SE	10	10	D- Dust
	1600	140	6F	10	10	BY= Hlowing
30 Asr	0800	WIX	14F	10	10	Spray
- Tripec	0900	WIX	1/4 F			T- Thunderstorm
	1000			10	10	T+= Severe
l	1100	alix	1/45	10	10	Thunderstorm
		alix	1/45	10	10	R= Rain
	1200	W/X	1/47	10	10	RW= Rainshower
	1300	W/X.	3/16F	10	10	L= Drizzle
	1400	-X8#	1/2 F	10	10	ZR= Freezing Rain
j	1500	180 300-0	54	5		ZL= Freezing
1 21	1600	200300	6#	3		Drizzle
Ollipy	0800	2700	10	3	2	IP- Ice Pellets
	0900	2700	10	2	2	(Sleet)
Ì	1000	2700	10	2	2	IPW=Ice Pellet
	1100	2700	10	2		Shower S= Snow
	1200	2700	10			SW= Snow Shower
	1300	2700	10	_/_	1	SP= Snow Pellets
	1400	0	10	0	o	SG= Snow Grains
	1500	0	10	0	0	IC= Ice Crystals
	1600	0	10	0	0	A= Hail
Oz May	0800	0		.0	$\sim$	Intensity of
	0900	0	10	0		precip.:
	1000	400	10		)	- = Light
	1100	40 D	10		1	+ = Heavy
	1200	450 .	10	Z	2	No symbol =
	1300	450	10	3	7	Moderate
	1400	450	10	3	- I	Sky Condition:
	1500	450	10	2	1	O= Clear =
	1600	40 ·	10	Z	2	less than
03Man	0800	80 D	10	1	1	1/10
	0900	65080 D	M	9	9	O- Scattered =
	1000	650800D	10	7	7	1/10-5/10
11	1100	85 D	10	3	3	0 = Broken =
	1200	85 D	10	1		6/10-9/10 D= Overcast =
	1300	0	10	0	0	10/10 of
-	1400	450	10	7	ブー	sky is
<b> </b>	1500	45D	10	<del>'</del>	<del>'</del>	covered.
1	1600	.0	10	0	0	il.
<u> </u>		_ <del></del>				

NOTE: A layer of clouds is considered to be thin if \( \frac{1}{2} \) or more of it is transparent; the sky condition symbol will be preceded by a (-) in such cases.

Visibilities of 7 or more miles are classified as unrestricted.

(-X) = sky partially obscured by surface based phenomena

(W2X) = sky completely obscured; vertical visibility is 200 feet

## SAMS Hourly Summarized Data Report

Elevation(ft): 16

Latitude : 39.50 Longitude : 76.07 21 MAR 1992 Spesutie Island

			_			-	STD	031:	_	4.					
	Sea Lv								Dens-			Pre-			
Time									ity		RH		Tmp		
h hmm	mb	F	F	deg	kt	kt	deg	in Hg	kg∕m3	in Hg	%	in	F	F	F
	1014.1	29.0			2	4			1.2986			0.00	30	28	29
	1014.2	29.2			2	4			1.2981		74	0.00	30	28	29
	1014.0	31.6	_	320	2	5			1.2913		74	0.00	33	29	32
400	1014.0	33.0		13	5	10			1.2876		75	0.00	34	32	27
500	1014.6	33.2	27	9	5	11	15	29.96	1.2875	29.942	78	0.00	34	3.3	28
600	1015.4	33.5	24	25	7	11	10	29.99	1.2882	29.967	69	0.00	34	33	25
700	1016.4	33.0	23	19	6	10	11	30.01	1.2906	29.995	67	0.00	33	33	26
800	1017.1	33.5	25	フ	6	12	14	30.04	1.2904	30.018	69	0.00	34	33	26
900	1017.6	34.0	25	359	6	11	17	30.05	1.2896	30.031	69	0.00	35	34	26
1000	1017.8	36.0	26	353	6	12	17	30.06	1.2846	30.038	66	0.00	37	35	29
1100	1017.9	38.6	26	340	5	10	19	30.06	1.2780	30.040	60	0.00	40	37	34
1200	1017.B	38.5	24	327	7	15	19	30.06	1.2782	30.038	55	0.00	39	38	30
1300	1018.0	38.6	25	344	9	18	19	30.06	1.2783	30.044	58	0.00	40	37	27
1400	1017.9	39.5	24	325	9	18	15	30.06	1.2757	30.039	54	0.00	41	38	27
1500	1017.9	41.3	21	336	9	20	19	30.06	1.2715	30.041	44	0.00	42	40	3.0
1600	1018.3	40.5	18	339	9	19	19	30.07	1.2743	30.053	41	0.00	41	40	28
1700	1018.4	39.2	17	355	9	19	18	30.07	1.2777	30.056	41	0.00	40	38	26
1800	1018.9	37.9	16	357	8	15	17	30.09	1.2816	30.071	41	0.00	39	37	27
1900	1019.4	36.2	16	11	8	13	12	30.10	1.2869	30.085	43	0.00	37	35	25
2000	1020.0	34.9	15	18	7	12	9	30.12	1.2911	30.103	44	0.00	35	34	25
2100	1020.6	33.8	15	21	5	9	10		1.2946		45	0.00	34	34	28
2200	1020.8	33.1	14	29	5	9	10	30.14	1.2966	30.125	45	0.00	34	32	3.0
2300	1020.5	32.2	14	28	3	6	10	30.13	1.2987	30.116	46	0.00	33	32	32
2400	1019.9	32.5	16	47	6	12	10	30.12	1.2969	30.098	51	0.00	33	32	25
Min	1014.0	29.0	14		2	4	8	29.94	1.2715	29.925	41	0.00	30	28	25
Ave	1017.6	35.1	21	358	6	12	14	30.05	1.2869	30.030	58	0.00	36	34	28
Max	1020.8	41.3	27		9	20	19	30.14	1.2987	30.125	78	0.00	42	40	34
STD	2.2	3.4	4		2	5	4	. 06	.0083	. 065	13	0.00	4	3	2
Tot												0.00			

## SAMS Hourly Summarized Data Report

Elevation(ft): 16 Latitude : 39.50 22 MAR 1992 Spesutie Island

Time	Sea Lu		Du	Ave	Αv	Wnd	STD Wnd	Alt	im	Dens-	· Sta.		Pra	Mass	M 2	£24.47.
hhmm		ıemp	Pt	WD	WS	Spd	Dir	-et	er		Press.	RH	Pre-	m	m-	91141)
ririmm	mb	F	F	deg	kt	kt	deg	in	Нg	kg/m3	in Hg	*		ımp F	Tmp	
100	1010 =								-	•	<b></b> .y	•	111	r	F	F
	1019.7	31.9			8	14	10	30.	11	1.2984	30.094	50	0.00	20	22	
	1020.3	31.3			6	12	11	30.	13	1.3009	30.111	48		32	32	19
400	1019.8	31.0			4	8	13	30.	12	1.3012	30.097	49	0.00	32	31	24
	1019.4	30.4			4	7	17	30.	10	1.3021	30.083	49		31 31	31	28
	1019.4	30.5			5	9	12	30.	10	1.3019	30.083	47		31	30	30
	1019.1	30.4	13	141	5	9	13	30.	09	1.3017	30.077	47		31	30	25
	1019.0	30.2			6	10	12	30.	09	1.3020	30.072	48			30	26
	1018.2	31.6			6	11	12	30.	07	1.2972	30.048	48		31	30	23
1000	1017.3	33.0			8	15	12	30.	04	1.2925	30.024	48		33	31	23
	1016.3	33.7			8	15	12	30.	01	1.2894	29.993		0.00	33	33	21
1200	1014.9			156	8	15	12	29.	97	1.2834	29.953	48	0.00	34	33	22
1200	1013.4	36.3	20	159	8	15	14	29.5	92	1.2787	29.907	51	0.00	36	34	24
1300	1011.9	35.6	23	155	8	16	15	29.8	88	1.2783	29.863	60	0.00	37	36	24
1500	1009.9 1007.7	34.8	28	149	8	15	12	29.8	B2	1.2775	29.805		0.00	36	35	23
1600	1007.7	34.9	30	140	В	13	13	29.5	76	1.2743	29.740		0.00	36 35	34	23
1700	1004.0	33.B	31	147	7	12	11	29.7	<b>7</b> 0	1.2746	29.685	89	.01	34	34	23
1900	1004.0	33.3	31		6	10	10	29.6	35	1.2735	29.629	90	.04	34	34	23
1900	1003.1	33.6		110	4	9	12	29.6		1.2715	29.604	90	. 05	34	33	25
2000	1002.8	34.2		38	5	8	12	29.6	31	1.2695	29.595	90	. 0.9	35	33 34	31
2100	1002.8		32	37	5	フ	10	29.6	61	1.2685	29.595	90	.04	35		30
2200	1002.8		32	36	3	6		29.6			29.594		0.00	35	34	30
		35.0	32	349	2	5				1.2679	29.603		0.00	35	35	34
2300	1003.3	34.4			2	5	18	29.6	33	1.2698	29.610		0.00		35	35
2400	1004.1	35.8	33	274	6	10	9	29.6	55	1.2670	29.633		0.00	35	34	34
Min :											20.000	30	0.00	37	35	3.0
	1002.8	30.2			2	5	9 :	29.6	1 1	1.2670	29.594	47	0.00	31	2.0	
	1011.6	33.4		128	6	11	13	29.8	7 1	1.2837	29.854	67	. 01	34	30	19
riax ,	1020.3	36.3	33		8	16	18 3	30.1	3 1	.3021	30.111	90	. 09	37	33	26
STD	7.4											., 0	. 03	3/	36	35
310	7.1	2.0	8		2	3	2	. 2	1	.0138	.210	20	. 02	2	0	-
Tot												20	. 02	2	2	5
.01													. 23			
													. 23			

## SAMS Hourly Summarized Data Report

Elevation(ft): 16

Latitude : 39.50 23 MAR 1992 Spesutie Island Longitude : 76.07

						DL	STD								
	Sea Lo	Air	Dω	Aue	Αu	libd	Mad	01+;=	Dame	Sta.					
Time	Press		Pt	Q(J)	ผร	Snd	Dir	-eter		Press.		Pre-	Max	Min	MND
րրատ		_	F	dea	kt	kt.	den	in Hg	kg/m3		КН <b>%</b>	cip		-	
			_	3			409	111 Mg	Kg/m3	In ng	*	in	F	F	F
100	1004.9	37.1	34	303	8	15	11	29.67	1.2647	29 656	07	0.00	37	27	-0.0
	1005.7	36.8			7	14	12	29.20	1.2666	29 691		0.00		37	26
300	1006.3	36.2			8	17	17	29.72	1.2689	29 690		0.00	37	37	27
	1006.5	35.4	29	340	9	19	18	29.72	1.2715	29 705		0.00	37	36	26
	1007.3	34.0			9	19	16	29.75	1.2762	29 729		0.00	36	35	23
	1008.4	33.0	26	327	9	19	18	29.78	1.2804	29 759		0.00	35 33	33	20
	1009.7	32.4	23	346	11	19	17	29.81	1.2838	29 797		0.00	33	33	20
800	1010.9	32.2			10	20	18	29.85	1.2861	29 834	64		33	32 32	16
	1011.7	32.5			12	23	18	29.87	1.2862	29.856	-	0.00	33	32	16 14
1000	1012.3	32.9			11	23	18	29.89	1.2862	29.876		0.00	34	32	15
	1012.8	33.8			9	17	17	29.91	1.2843	29.888		0.00	34	34	20
	1012.7	34.7			9	19	18	29.90	1.2818	29.887		0.00	35	34	21
	1012.6	35.5			10	18	19	29.90	1.2796			0.00	36	35	21
	1012.3	36.0			9	18	19	29.89	1.2781			0.00	37	36	23
	1012.3	36.9			8	18	19	29.89	1.2757	29.874		0.00	38	36	25
	1012.6	37.6			9	18	17	29.90	1.2745	29.884		0.00	38	37	24
	1013.2	37.2			9	19	19	29.92	1.2761	29.902		0.00	38	37	24
	1014.3	36.7			В	17	18	29.95	1.2790	29.934		0.00	37	36	26
	1015.6	35.6			7	16	14	29.99	1.2835	29.971		0.00	36	35	25
	1016.8	34.4			8	15	12	30.03	1.2880	30.007		0.00	35	34	22
	1017.8	33.0			6	13	10	30.05	1.2931	30.037		0.00	34	31	26
	1018.5	30.4			4	9	7	30.07	1.3007	30.057		0.00	31	30	28
2300	1018.9	30.4			6	10	7	30.09	1.3014	30.069		0.00	31	30	22
2400	1019.4	29.6	13	273	5	9	7	30.10	1.3042	30.085		0.00	30	29	24
M2	1004 -												0.5	20	2 7
	1004.9	29.6			4	9	7	29.67	1.2647	29.656	45	0.00	30	29	14
_	1012.2		21		8	17	15	29.89	1.2821	29.873		0.00	35	34	22
ria x	1019.4	37.6	34		12	23	19	30.10	1.3042	30.085		0.00	38	37	28
STD	4.0		_		_									-	
310	4.2	2.3	6		2	4	4	. 13	.0103	. 125	14	0.00	2	2	4
Tot															
, 0 (												0.00			

#### SAMS Hourly Summarized Data Report

Elevation(ft): 16

24 MAR 1992

Latitude : 39.50 Longitude : 76.07

Spesutie Island

						Pk	STD								
	Sea Lo	Air	Dω	Ave	Αv	Wnd	Mnd	Altim	Dens-	Sta.		Pre-	Max	Min	GMG
Time	Press	Temp	Pt	WD	พร	Spd	Dir	-eter	ity	Press.	RH	cip	Tmp	Tmp	CHL
h hmm	mb	F	F	deg	kt	kt	deg	in Hg	kg/m3	in Hg	8	in	F	F	F
100						_		00.40							2.1
	1019.9	28.0			1	5			1.3092			0.00	29	27	28
	1020.2	29.8	13	318	4	7			1.3046			0.00	30	29	28
	1020.3	28.4	13		3	7			1.3088		51		30	26	27
	1021.0 1021.5			265	4	7			1.3155			0.00	26	26	24
	1021.5			277	5	8			1.3153		54	0.00	27	26	22
	1022.1	27.4		272	4	8 6			1.3134		55		28	27	24
					-		9		1.3140		55	0.00	29	27	26
	1024.5	31.6		289	6 8	10	10		1.3054		52	0.00	33	30	25
	1025.3 1025.8	34.5		314	_	14	12		1.2986		50	0.00	35	33	24
	1025.8	35.9		310	8	15	12		1.2954		48	0.00	37	35	25
	1025.5	38.8		305	6	11	13		1.2880		42	0.00	40	38	32
		41.0		315	5	10	17	30.28	1.2822		35		42	40	36
	1025.3	42.9		300	6	15	17	30.28	1.2778		32	0.00	44	42	37
-	1024.6 1024.4	44.0 45.5		296	<i>7</i>	17 17	17		1.2732		31		45	43	36
	1024.4	46.4			9	16	15		1.2694		32	0.00	46	45	35
	1024.7	46.4			8	17	16		1.2671		28	0.00	47	46	36
	1024.7			282	7	13	16 12	30.26	1.2673		28	0.00	47	46	37
	1025.7			279	6	13			1.2689		28	0.00	47	45	38
	1026.6				_		8		1.2760		28	0.00	45	42	38
	1025.6	37.2		235	4	7	10		1.2857		35	0.00	42	38	39
	1027.4				5	8			1.2938		52	0.00	38	35	33
		34.2			4	6			1.3021		65	0.00	36	34	31
	1028.0	34.5			5	6			1.3016		66	0.00	35	34	31
2400	1028.0	33.7	24	235	2	3	14	30.36	1.3037	30.340	68	0.00	35	33	34
Min	1019.9	26.2	12		1	3	3	30.12	1.2671	30.099	28	0.00	26	26	22
Ave	1024.5	36.3	16	285	5	10	12	30.25	1.2932	30.234	45	0.00	37	35	31
Max	1028.0	46 . 4			9	17			1.3155		68	0.00	47	46	39
STD	2.5	7.0	4		_		_	0.77	0160	073	10	0 00	_	_	
310	2.5	/ . 0	4		2	4	5	. 07	.0169	. 073	13	0.00	7	7	6
Tot												0.00			

#### SAMS Hourly Summarized Data Report

Elevation(ft): 16

39.50 25 MAR 1992 Latitude Spesutie Island :

Longitude

Min

Ave

Max

STD

1029.0

2.3

55.1 37

8.3 4

76.07

Pk STD Air Dw Ave Av Wnd Wnd Altim Dens-Sta. Sea Lo Pre- Max Min WND Time Temp Pt WD WS Spd Dir -eter Press ity Press. RН cip Tmp Tmp CHL kt deg in Hg in Hq F hhmm F dea kt kg/m3 8, in F F mh 100 1028.1 8 30.36 1.3033 30.343 33 33.8 26 232 3 6 72 0.00 34 33 9 30.36 1.3045 30.344 5 79 0.00 33 200 1028.2 33.3 27 237 2 34 33 11 30.36 1.3031 30.340 5 300 1028.0 33.7 29 271 2 84 0.00 34 33 34 3 5 30.37 1.3098 30.349 88 0.00 30 31 400 1028.4 31.4 28 296 1 32 2 17 30.37 1.3111 30.355 500 1028.6 31.0 28 153 1 89 0.00 32 30 31 2 9 30.38 1.3116 30.363 600 1028.8 31.0 28 211 2 89 0.00 32 30 31 700 1028.5 33.7 31 167 2 4 8 30.37 1.3036 30.354 89 0.00 36 32 34 8 9 30.38 1.2932 30.365 800 1028.9 37.8 34 191 4 86 0.00 39 36 35 7 10 30.39 1.2864 30.369 39 900 1029.0 40.4 36 207 11 83 0.00 42 32 1000 1028.7 43.6 37 211 7 12 13 30.38 1.2775 30.358 77 45 42 35 0.00 7 1100 1028.0 47.3 36 201 12 13 30.36 1.2675 30.340 66 0.00 49 45 35 1200 1027.3 203 7 30.34 1.2599 30.317 50.0 36 11 15 59 0.00 51 49 43 1300 1026.3 52.5 36 208 7 12 30.31 1.2527 12 30.289 53 0.00 54 51 46 1400 1025.4 55.0 34 196 11 20 11 30.28 1.2455 30.261 44 0.00 56 54 44 1500 1024.B 55.130 200 13 20 9 30.26 1.2451 30.244 39 0.00 56 54 42 1600 1024.5 53.8 29 9 30.25 1.2479 30.235 53 55 191 12 18 39 0.00 42 1700 1024.3 51.9 28 176 17 9 30.25 1.2524 30.228 53 51 40 11 39 0.00 1800 1023.8 50.0 26 170 22 9 30.23 1.2567 30.216 51 39 49 36 12 0.00 1900 1023.5 48.8 25 166 15 9 30.22 1.2594 30.207 40 49 48 38 10 0.00 2000 1023.4 48.3 26 162 9 16 10 30.22 1.2604 30.202 41 0.00 49 48 38 2100 1023.9 46.7 24 165 8 14 10 30.24 1.2652 30.218 411 0.00 48 46 37 2200 1023.7 7 37 45 1 24 164 13 10 30.23 1.2689 30.212 44 0.00 46 44 2300 1023.4 44.2 27 174 5 9 30.22 1.2706 30.204 50 0.00 44 44 41 11 7 2400 1023.2 43.5 32 197 3 13 30.21 1.2715 30.196 63 0.00 44 43 43 1023.2 31.0 24 2 5 30.21 1.2451 30.196 39 0.00 32 30 31 1 1026.3 43.4 30 189 10 30.31 1.2762 30.288 62 0.00 6 11 44 42 37

17 30.39 1.3116 30.369

.07 .0231

56

В

89 0.00

20 0.00

.067

54

8

46

5

Tot 0.00

3

22

6

13

4

#### SAMS Hourly Summarized Data Report

Elevation(ft): 16

26 MAR 1992 Spesutie Island

Latitude Longitude : 39.50 : 76.07

Tot

							STD								
	Sea Lo							Altim		_Sta.		Pre-			
Time	Press	Temp							ity		RH		Tmp		
hhmm	шp	F	F	deg	kt	kt	deg	in Hg	kg∕m3	in Hg	*	in	F	F	F
100	1022.7	43.0	34	81	2	5	15	30.20	1.2718	30.182	71	0.00	43	43	43
	1022.3	42.5	38	62	3	6			1.2722			0.00	43	42	43
	1021.2	42.4	39	79	4	6	9		1.2711		87	. 01	43	42	40
	1020.6	42.1	39	63	4	6	9		1.2711		88	. 01	42	42	42
	1020.3	42.0	39	50	4	2	10		1.2710		88	0.00	42	42	40
	1020.3	42.2	39	46	6	9	9		1.2703		89	0.00	42	42	37
	1020.3	42.6	40	37	4	8	10		1.2693		89	0.00	43	42	40
	1020.2	42.9	40	34	4	2	9		1.2684		89	0.00	43	43	42
900	1019.6	43.8	41	48	6	10	10	30.11	1.2653		88	0.00	44	43	37
1000	1018.9	44.7	41	41	6	9	В	30.09	1.2622	30.072	87	0.00	45	44	38
1100	1018.0	45.5	42	43	6	11	9	30.06	1.2589		87.	0.00	46	45	39
1200	1017.4	46.6	43	51	4	7	10	30.04	1.2553	30.025	86	. 01	47	46	45
1300	1016.3	46.9	43	31	4	7	9	30.01	1.2530		87	0.00	48	46	45
	1014.7	47.5	44	75	5	9	11	29.96	1.2496	29.947	87	. 02	48	47	45
1500	1013.1	47.8	44	81	7	11	2	29.92	1.2470	29.900	87	. 03	48	47	40
1600	1012.0	47.2	44	28	4	9	14	29.88	1.2470	29.866	88	. 11	47	47	45
1700	1010.2	46.9	44	12	5	9	12	29.83	1.2454	29.814	89	.10	47	47	43
1800	1008.6	47.0	44	24	7	12	8	29.78	1.2431	29.766	90	.22	48	47	39
	1006.3	47.5	45	35	11	16	フ	29.72	1.2392	29.699	90	. 12	48	47	35
	1003.5	47.8	45	12	11	18	14	29.63	1.2348	29.616	91	.23	48	47	35
2100	999.9	48.4		353	14	23	22	29.53	1.2290		90	. 21	49	48	33
2200	997.4	.47.9	45	353	13	25	22	29 . 45	1.2272		8.9	.02	48	48	33
2300	996.2	47.6			10	20	20		1.2264		88	. 13	48	47	36
2400	996.5	47.5	44	295	14	26	12	29.43	1.2271	29.409	87	. 1フ	48	47	32
Min	996.2	42.0	34		2	5	7	29.42	1.2264	29.401	71	0.00	42	42	32
Ave	1013.2	45.4	42	24	7	11	12	29.92	1.2532	29.902	87	. 06	46	45	39
Max	1022.7	48.4	45		14	26			1.2722		91	.23	49	48	45
STD	8.8	2.4	3		4	6	5	. 26	.0164	.260	4	. 08	2	2	4

1.44

# APG Surface Observations EST [Add one hour for EDT] SAMS Hourly Summarized Data Report

Elevation(ft): 16

Latitude : 39.50 25 MAY 1992 Spesutie Island

Longitude : 76.07

						•	STD		<u> </u>						
	Sea Lv							Altim				Pre-			
Time	Press		Pt	(9D	WS	Spd	Dir	-eter	ity	Press.	RH			Tmp	
աաղո	mb	F	F	deg	kt	kt	deg	in Hg	kg/m3	in Hg	*	iņ	F	F	F
100	1014.3	51.8	50	2	8	18			1.2376			0.00	53	51	43
200	1014.4	51.4	50	2	8	17	_		1.2389		95	0.00	52	51	43
300	1014.2	51.2	50	11	9	16			1.2390		95	. 01	51	51	42
400	1014.2	51.1	50	13	9	16			1.2392		95	0.00	51	51	42
500	1014.4	51.1	50	15	8	15			1.2394		96	0.00	52	51	42
600	1014.9	51.9		32	9	18			1.2392		-	0.00	53	51	42
700	1015.6	51.0	49	25	9	16	13	29.99	1.2414	29.973	93	0.00	51	51	41
800	1016.2	50.5	49	26	9	14	14	30.01	1.2435		93	0.00	51	50	41
900	1016.4	49.7	48	29	8	14	15	30.01	1.2455	29.996	95	0.00	50	49	47 -
1000	1016.5	50.4	49	26	6	12	15	30.02	1.2441	30.000	95	0.00	51	5.0	44
1100	1016.5	51.7	50	37	5	11	16	30.02	1.2409	30.001	93	0.00	53	51	48
1200	1016.6	53.0	50	41	4	8	19	30.02	1.2375	30.002	9.0	0.00	54	5.3	53
1300	1016.5	53.6	50	24	3	7	22	30.02	1.2360	30.001	89	0.00	54	53	54
1400	1016.3	54.1	51	43	3	7	18	30.01	1.2345	29.995	89	0.00	55	54	54
1500	1016.2	55.3	52	25	3	6	18	30.01	1.2313	29.992	មិន	0.00	56	55	55
1600	1016.2	56.1	52	1.0	2	6	25	30.01	1.2294	29.991	86	0.00	56	56	56
1700	1016.4	56.0	52	11	1	4	27	30.01	1.2297	29.996	85	0.00	56	56	56
1800	1016.4	55.9	52	248	2	4	14	30.02	1.2302	29.998	86	0.00	56	56	56
1900	1016.7	55.5	52	250	1	3	12	30.02	1.2313	30.006	87	0.00	56	55	56
2000	1016.9	55.3	52	214	2	4	9	30.03	1,2319	30.013	90	0.00	55	55	55
2100	1017.3	55.2	52	206	3	5	10	30.04	1.2326	30.023	90	0.00	55	55	55
2200	1017.4	55.2	52	180	3	5	8	30.04	1.2328	30.025	90	0.00	55	55	55
2300	1017.1	55.6	52	163	5	11	12	30.04	1.2316	30.018	89	0.00	56	55	53
2400	1016.9	55.5	53	162	6	12	12	30.03	1.2315	30.013	91	0.00	56	55	51
Min	1014.2	49.7	48		1	3	8	29.95	1.2294	29.931	85	0.00	50	49	41
Ave	1016.0	53.2	51	2:3	5	10	16	30.00	1.2362	29.986	91	. 00	54	53	49
Max	1017.4	56.1	53		9	18			1.2455		96	. 01	56	56	56
STD	1.0	2.2	1		3	5	5	. 03	. 0049	.031	3	. 00	2	2	6
Tot												. 01			

## SAMS Hourly Summarized Data Report

Elevation(ft): 16 Latitude : 39.50 Longitude : 76.07 26 MAY 1992 Spesutie Island

						-	STD								
	Sea Lo								Dens-	_Sta.		Pre-	Max	Min	MND
Time	Press	Temp						-eter		Press.	RH		Tmp		CHL
hhmm	mb	F	F	ged	kt	kt	deg	in Hg	kg/m3	in Hg	*	in	F	F	F
100	1016.8	54.7	52	163	6	10	11		1.2333			0.00	55	54	50
200	1016.5	54.6	52	157	6	13	15	30.02	1.2333	30.001		0.00	55	54	51
300	1016.2	54.6	52	135	5	10	15	30.01	1.2328	29.990	91	0.00	55	54	52
400	1015.5	54.7	52	112	6	12	17	29.99	1.2318	29.970	92	0.00	55	54	511
510	1015.4	54.6	52	100	6	13	16	29.99	1.2319	29.967	91	0.00	55	54	49
600	1016.0	54.6	52	92	6	12	16	30.00	1.2327	29.984	91	0.00	55	54	50
700	1016.0	54.9	52	95	6	11	17	30.00	1.2318	29.984	90	0.00	55	55	51
800	1015.8	55.1	52	97	5	10	17	30.00	1.2313	29.980	90	0.00	<b>5</b> 5	55	52
900	1015.8	55.3	52	92	5	10	18	30.00	1.2307	29.979	89	0.00	56	55	52
1000	1016.2	55.3	52	59	3	フ	15	30.01	1.2311	29.992	89	. 01	56	55	55
1100	1016.5	54.6	52	77	4	9	15	30.02	1.2332	29.998	92	.07	55	54	53
1200	1016.3	54.4	52	89	5	1.0	18	30.01	1.2335	29.994	93	.07	55	54	52
1300	1016.0	54.2	52	83	4	8	15	30.00	1.2336	29.986	93	. 05	<b>5</b> 5	54	52
1400	1015.4	55.0	53	90	4	.9	17	29.98	1.2307	29.967	93	0.00	55	55	53
1500	1014.8	55.4	53	106	5	9	16	29.97	1.2289	29.948	92	. 03	56	55	53
1600	1014.5	55.1	53	122	5	1.0	16		1.2293		93	.02	56	55	5.3
1700	1014.5	54.5		128	6	12	14		1.2309		93	. 02	55	54	49
1800	1014.5	54.8	52	113	5	11	15		1.2302		91	0.00	55	55	51
1900	1014.5	54.6	52	112	3	7	19		1.2308		91	0.00	55	54	54
2000	1014.8	54.5	52	104	3	6	18		1.2315		90	0.00	55	54	54
2100	1014.9	54.8	52	84	4	9	15		1.2307		91	n.00	55	55	53
2200	1014.7	54.8	52	73	6	1.0	13	29.96	1.2305	29.947	91	0.00	55	55	5.0
2300	1014.4	54.5	52	64	6	10	13	29.96	1.2311	29.938	90	0.00	55	54	5.0
2400	1014.6	54.1	51	72	5	9	15	29.96	1.2323	29.942	89	0.00	54	54	51
Min	1014.4	54.1	51		3	6	11	29.96	1.2289	29.938	89	0.00	54	54	49
Ave	1015.4	54.7		102	5	10			1.2316		91	. 01	55	54	52
Max	1016.8	55.4			6	13			1.2336		93	.07	56	55	55
Has	1010.0	J.J. 7	<b>J</b> .		J	13	10	20.00	2,255					_	
STD	. 8	3	0		1	2	2	.02	.0013	. 023	1	. 02	0	0	2
Tot												. 27			

## APG Surface Observations EST [Add one hour for EDT] SAMS Hourly Summarized Data Report

Elevation(ft):
Latitude :

): 16 : 39.50 : 76.07 27 MAY 1992 Spesutie Island

Longitude

	Sea Lv	Air	Dw	Ave	Αv		STD Wnd	Altim	Dens-	Sta.		Pre-	Max	Min	WND
Time		Temp						-eter		Press.	RH		Tmp		
hhmm	mb	F	F	dea	kt	kt	deg	in Hq	kg/m3	in Hg	*	in	F	F	F
		_	_	3			3	3	3,	3					
	1014.2	53.7		64	4	9			1.2328			0.00	54	53	52
	1014.1	53.4		68	3	6			1.2335			0.00	54	53	53
	1013.8	53.3		94	3	6			1.2335			0.00	53	53	53
	1013.8	53.0		73	3	7			1.2342			0.00	53	53	53
	1013.9	53.0		64	5	10			1.2342			0.00	53	53	50
	1014.2	53.1		54	3	9			1.2345			0.00	53	53	53
	1014.8	56.8		13	1	6			1.2249			0.00	57	53	57
	1014.8	58.0		325	1	5			1.2207			0.00	58	56	58
	1015.2	59.4		255	3	6			1.2181			0.00	59	58	58
	1015.3	61.8		246	4	8			1.2101			0.00	62	58	60
	1014.9	62.6	56	69	3	7	-		1.2003			0.00	63	61	61
	1014.7	63.0		149	4	9			1.2015			0.00	63	63	60
	1014.1	63.5		137	5	8		29.95	1.2090			0.00	65	61	62
	1013.7	64.7		151	4	В			1.2054			0.00	66	64	64
	1013.6	66.7	53	284	4	10		29.93	1.2013			0.00	69	65	66
	1013.6	66.5		328	5	13			1.2029			0.00	67	66	64
	1013.8	66.7		308	3	8			1.2027			0.00	67	66	66
	1014.0	65.9		316	4	7			1.2047		47		67	65	66
	1014.4	64.3		293	. 4	7	14	29.96	1.2089	29.937		0.00	66	63	64
	1014.8	62.5		327	4	9	20	29.97	1.2137	29.950	52	0.00	63	61	62
	1015.4	58.7	45	294	3	8	20	29.98	1.2233	29.967	- 60	0.00	61	56	59
	1015.8	58.2		303	3	8	16	30.00	1.2248	29.978		0.00	59	56	58
2300	1016.5	57.7	46	345	5	12	18	30.02	1.2268	29.998	65	0.00	59	56	54
2400	1017.2	57.6	45	355	7	14	17	30.04	1.2280	30.019	63	0.00	58	57	52
Min	1013.6	53.0	44		1	5	14	29.93	1.2003	29.914	47	0.00	53	53	50
Ave	1015.4	59.6	51	358	4	8	22	29.96	1.2179	29.944	72	0.00	60	59	59
Max	1017.2	66.7	60		7	14	39		1.2345		90	0.00	69	66	67
STD	.8	5.5	5		1	2	7	.03	.0127	.027	16	0.00	6	5	6
Tot												0.00			

## SAMS Hourly Summarized Data Report

Elevation(ft): 16

Latitude : 39.50 28 MAY 1992 Spesutie Island

Longitude : 76.07

						Pk	STD								
	Sea Lo	Air	DM	Ave	Αv	Und	Und	Altim	Dens-	Sta.		Pre-	Max	Min	MND
Time	Press	Temp	Pt	UD	ผร	Spd	Dir	-eter	ity	Press.	RH	cip	Tmp	Tmp	CHL
հրթ	mb	F	F	deg	kt	kt	deg	in Hg	kg/m3	in Hg	8	in	F	F	F
	1017.6	56.2		-	4	10			1.2319		_	0.00	57	55	55
	1017.8	49.4		248	2	4	3		1.2490			0.00	55	46	49
	1018.1	45.5		253	3	5			1.2589		92	-	46	45	45
	1018.3	45 . 1		259	2	5	8		1.2600		93	0.00	46	45	45
	1018.7	49.0		297	3	7	13		1.2507		85	0.00	51	46	49
	1019.3	52. <i>7</i>		297	4	8	16	30.10	1.2423	30.082	79	0.00	55	51	51
	1019.8	56.2	47	298	5	10	13	30.12	1.2343	30.098	72	0.00	59	55	53
	1020.4	60.7	48	323	4	9	19	30.13	1.2241	30.115	63	0.00	62	59	59
900	1020.8	62.9	47	358	4	9	19	30.14	1.2195	30.126	57	0.00	64	62	61
1000	1020.8	65.1	49	357	4	9	17	30.15	1.2143	30.128	56	0.00	66	64	64
1100	1021.0	67.6	48	349	4	8	20	30.15	1.2090	30.134	49	0.00	69	66	67
1200	1021.1	69.1	47	18	3	8	21	30.15	1.2058	30.137	45	0.00	70	68	69
1300	1020.9	70.2	46	4	3	7	24		1.2030		43	0.00	71	69	70
1400	1020.6	70.9	46	201	2	7	42	30.14	1.2011	30.120	41	0.00	72	70	71
1500	1020.3	69.2	46	203	6	10	15		1.2048		43	0.00	70	68	67
1600	1020.1	69.7	46	203	5	9	17	30.12	1.2032	30.105	42	0.00	70	69	68
1700	1020.1	68.2	45	199	5	8	10	30.12	1.2069	30.106	43	0.00	70	66	66
1800	1020.2	68.0	45	210	5	9	10	30.13	1.2076	30.109	43	0.00	69	67	66
1900	1020.6	65.5	45	226	4	7	8	30.14	1.2138	30.122	48	0.00	67	63	65
2000	1020.9	61.4	46	229	4	7	7		1.2235		57	0.00	63	60	61
2100	1021.4	58.3	48	218	3	5	12		1.2310		69	0.00	59	56	58
2200	1022.0			230	3	- 5	6		1.2353		77	0.00	57	56	57
2300	1022.3	55.1			3	- 5	5		1.2396		81	0.00	56	54	55
2400	1022.7	53.4			2	4	9		1.2444			0.00	55	53	53
						-	•				-				
Min	1017.6	45.1	43		2	4	3	30.05	1.2011	30.032	41	0.00	46	45	45
Ave	1020.3		_	268	4	7	_		1.2256			0.00	62	59	59
Max	1022.7	70.9			6	10			1.2600			0.00	72	70	71
			-		•			50.20	1.2000	00.100	0.0	0			, ,
STD	1.4	8.3	2		1	2	8	. 04	.0189	. 040	18	0.00	8	8	8
			_		_	-	-		, 0 2 3 0			3 . <b>2 0</b>	-	_	-
Tot												0.00			
												0.00			

## SAMS Hourly Summarized Data Report

Elevation(ft): 16

29 MAY 1992 Spesutie . Island

Latitude : 39.50 Longitude : 76.07

						Pk	STD								
	Sea Lo	Air	Dω	Ave	Αv	Wnd	Wnd	Altim	Dens-	Sta.		Pre-	Max	Min	MND
Time	Press							-eter		Press.	RH		Tmp		
հրաա	mb	F	F	deg	kt	kt	deg	in Hg	kg/m3	in Hg	*	in	F	F	F
								_	-						
	1022.8	52.7	47	282	2	3	9	30.20	1.2463	30.186	81	0.00	53	52	53
	1022.9	51.4			2	3	8	30.21	1.2496	30.189	89	0.00	53	49	51
	1022.9	50.8			2	4	26	30.21	1.2509	30.190	96	0.00	52	49	51
400	1023.2	50.4	50	273	1	3	14	30.22	1.2522	30.199	98	0.00	51	50	50
	1023.5	53.2	52	2	3	6	17	30.22	1.2451	30.207	96	0.00	56	51	53
	1024.0	57.6	54	19	3	6	14	30.24	1.2349	30.221	88	0.00	59	57	58
70D	1024.7	60.3	55	39	3	5	13	30.26	1.2290	30.242	82	0.00	61	59	60
800	1025.2	61.9	55	38	3	6	14	30.27	1.2260	30.257	78	0.00	63	61	62
900	1025.6	65.1	56	60	3	5	13	30.29	1.2188	30.269	72	0.00	67	6.3	65
1000	1025.8	68.8	56	72	2	4			1.2103		64	0.00	71	67	69
1100	1026.1	71.3	57	73	2	3	14	30.30	1.2049	30.282	60	0.00	72	70	71
1200	1025.8	73.4	54	40	2	4			1.2003		51		75	72	23
1300	1025.5	74.2	51	28	2	5	14	30.28	1.1987	30.264	44	0.00	75	74	74
1400	1024.8	74.2	49	50	3	5	17	30.26	1.1981	30.244	42	0.00	75	74	74
	1024.3	75 · 1	48	93	2	4	20		1.1957		39	0.00	76	74	25
	1023.8	74.9	48	79	3	6	18	30.23	1.1956	30.216	39	0.00	75	74	75
	1023.3	<i>7</i> 3.6	48	129	4	9	13	30.22	1.1981	30.201	40	0.00	74	73	73
	1023.3	72.3	49	137	4	8	14	30.22	1.2007	30.201	43	0.00	73	71	71
	1023.9	67.9	48	173	5	11	14	30.24	1.2117	30.218	49	0.00	71	66	66
	1024.3	63.9	51	174	4	7	10	30.25	1.2208	30.231	63	0.00	66	63	64
2100	1024.7	62.8	50	159	4	11	10	30.26	1.2240	30.241	64	0.00	65	61	62
	1024.8	64.1	49	144	6	12	14	30.26	1.2213	30.245	59	0.00	65	63	61
2300	1024.8	62.1	49	145	6	10	13	30.26	1.2260	30.244	61	0.00	63	61	59
2400	1024.5	60.0	48	157	4	. 8	11	30.25	1.2308	30.235	63	0.00	61	58	58
											-				0.5
Min	1022.8	50.4	47		1	3	8	30.20	1.1956	30.186	39	0.00	51	49	50
Aue	1024.4	64.2	51	117	3	6	14	30.25	1.2204	30.232	65	0.00	66	63	64
Max	1026.1	<i>75 .</i> 1	57		6	12	26	30.30	1.2522	30.282	98	0.00	76	74	25
STD	1.0	8.4	3		1	3	4	.03	.0192	.029	20	0.00	8	9	8
Tot												0.00			

## SAMS Hourly Summarized Data Report

Elevation(ft): 16

: 39.50 : 76.07 Latitude 30 MAY 1992 Spesutie Island

Longitude

						Pk	STD								
	Sea Lo	Air	Drat	Ave	Αv	Und	Und	Altim	Dens-	Sta.		Pre-	Mass	Mi-	CIALL
Time	Press	Temp	Pt	ЮD	WS	Spd	Dir	-eter		Press.	RH			Tmp	
hhmm	mb	F	F	dea	kt	kt	dea	in Ha	kg/m3	in Hg	95		F	F	F
				3			3	9	Kg. IIIO	I ng	-	111	r	r	r
100	1024.3	58.2	46	150	4	8	14	30.25	1.2351	30.230	63	0.00	59	58	58
200	1024.2	58.8			4	9			1.2336			0.00	59	59	57
300	1023.9	58.4			4	8			1.2341			0.00	59	58	5 <i>7</i>
400	1023.7	58.4			5	9			1.2335			0.00	59	58	56
500	1023.8	59.2		93	6	12			1.2313			0.00	60	59	55
600	1024.4	58.5			6	11			1.2330		85		5.9		
700	1024.7	58.7			6	10			1.2328			0.00	60	58	54
800	1024.7	59.8	56	28	7	11			1.2301			0.00	60	58	55
900	1024.9	60.9		90	7	13			1.2280		78		-	59	55
1000	1025.2	60.1			6	15			1.2305			0.00	61 61	60	56
1100	1025.1	58.8		94	6	13			1.2337		78			59	56
1200	1024.8	57.9	54	81	7	14	15	30.26	1.2351	30.233	87	.02 .01	59	58	54
1300	1024.3	58.0		70	8	14			1.2339		93		58	58	52
	1023.3	59.1		61	10	17			1.2296		97	. 02	59	57	52
	1022.3	60.6		71	10	17			1.2244		97	. 06	60	58	51
	1021.7	62.5		91	9	17			1.2189		97	. 06	62	60	52
	1021.0	62.9		94	10	18			1.2169			. 25	63	62	55
	1020.7	63.2			8	19	15	20 1/	1.2159	30.133	97 97	. 12	63	63	55
	1020.4	63.5			9	19			1.2148		-	. 04	63	63	57
	1020.1	63.9			10	19			1.2133		97	. 06	64	63	57
	1019.9	64.5	64	133	9	17	12	20 12	1.2133	30,105	97	.04	64	64	56
	1019.6	64.5			9	18	12	20 11	1.2116	30.100	97	. 01	65	64	58
	1019.1	64.4			9	17			1.2114			0.00	65	64	58
	1018.5	64.6			8	16				30.077		0.00	65	64	58
	2020.0	01.0	03	130	0	10	13	30.08	1.2098	30.059	96	. 02	65	64	59
Min	1018.5	57.9	ac		4	8	1.1	20 00	1 0000						
Ave	1022.7			100	7	14			1.2098			0.00	58	57	51
Max	1025.2	64.6				-			1.2251		86	. 03	61	60	56
.47	1023.2	07.0	04	•	10	19	18	30.27	1.2351	30,255	97	. 25	65	64	59
STD	2.2	2 =	_		_		_								
J. D	2.2	2.5	6		2	4	2	. 06	.0095	. 065	13	. 06	2	3	2
Γot															
101												.71			

## APG Surface Observations EST [Add one hour for EDT] SAMS Hourly Summarized Data Report

Elevation(ft):

16

15 JUN 1992

Spesutie Island

Latitude : 39.50 Longitude : 76.07

						Pk	STD								WBG
	Sea Lo	Air	Dia	Ave	Αv	Mnd	Wnd	Altim	Dens-	Sta.		Pre-	Max	Min	TmP
Time		T	D.	UD	LJC.	Snd	Dir	-eter	itu	Press.	RH	cip	Tmp	Tmp	Id×
hhimm	mb	F	F	deq	kt	kt	deg	in Hg	kg/m3	in Hg	*	in	. F	F	F
	•			_			_								
100	1012.2	70.2	67	214	4	6	9	29.89	1.1884	29.872		0.00	71	69	
	1011.8	69.0			3	6	5	29.88	1.1908	29.861	94	0.00	69	69	
300	1011.8	69.2	68	195	3	5	フ	29.88	1.1903	29.863	94	0.00	70	68	
	1012.1	69.2			2	4	8	29.89	1.1907	29.870	95	0.00	20	68	
	1012.4	67.5			2	3	9	29.90	1.1952	29.880	96	0.00	69	67	
	1012.9	68.0			2	7	14	29.91	1.1944	29.893	95	0.00	71	66	
	1013.3	73.2			2	6			1.1824			0.00	75	21	
	1013.6	76.3	72	309	3	6			1.1756			0.00	77	25	
900	1013.9	77.3	72	354	5	12			1.1736			0.00	28	77	
1000	1014.4	79.3	71	12	6	1.0			1.1700		75	. 11	81	78	
1100	1014.8	82.1	69	15	4	8			1.1651		65		83	81	
1200	1014.7	83.9	67		4	7			1.1615		58	0.00	84	83	
1300	1014.4	84.6		8	4				1.1596			0.00	85	84	
	1014.2	85.6			4				1.1572		55		87	85	
	1014.3	86.6			4				1.1556		51	0.00	87 87	86 86	
	1014.4	86.6			4				1.1562		48	0.00	86 86	85	
	1014.5	85.5			4				1.1586		49	0.00	85	83	
	1014.9	83.6			5	9			1.1629		54	0.00 0.00	83	80	
	1015.4	81.8			5	1.0			1.1676		55		80	78	
	1016.1	79.3		2.0	6	11			1.1742		55 28	0.00 0.80	78 - 78	74	
	1017.3	75.2			6	10			1.1832		80	0.00	74	73	
	1018.3	72.9			4				1.1898		79 - 79	0.00	73	73	
	1019.0	72.7			3				1.1912			0.00	73	70	
2400	1019.4	71.7	64	133	3	7	20	30.10	1.1945	30.085	11	0.00	70	7.0	
Hin	1011.8	67.5	62		2	3			1.1556		48	-	69	66	
Asse	1014.6	77.1	67	11	4	8			1.1762		73	.00	78	76	
Max	1019.4	86.6	72		6	12	20	30.10	1.1952	30.085	96	. 11	87	86	
STD	2.1	6.7	2		1	2	4	. 06	.0143	.063	17	. 02	7	7	
Tot												. 11		٠	

## APG Surface Observations EST [Add one hour for EDT] SAMS Hourly Summarized Data Report

Elevation(ft): 16

Latitude 39.50 : 16 JUN 1992 Spesutie Island Longitude 26.07

Pk STD WRG Air Dw Ave Av Wind Wind Altim Sea Lo Dens-Sta. Pre- Max Min Tmp Time Press Temp Pt WD WS Spd Dir -eter ity Press. RH cip Tmp Tmp Idx hhmm F F deg kt kt deg in Hg kg/m3 in Hq \* in F F

100 1019.8 14 30:12 1:1960 30:098 21.1 65 108 4 8 82 0.00 72 71 200 1020.1 15 30.12 1.1980 30.106 70.3 66 101 5 11 85 0.00 71 70 300 1020.2 7 69.5 65 82 14 15 30.13 1.2001 30.110 86 0.00 711 69 400 1020.9 68.0 64 28 15 14 30.15 1.2045 30.129 88 0.00 69 67 500 1021.6 66.9 64 28 8 14 14 30.17 1.2080 30.151 90 0.00 67 66 600 1022.3 66.5 63 80 8 15 13 30.19 1.2101 30.171 67 88 0.00 66 700 1022.9 62.5 63 77 15 14 30.21 1.2084 30.189 87 0.00 68 62 800 1023.6 87 7 68.9 64 12 15 30.23 1.2059 30.208 83 0.00 20 68 900 1024.2 70.9 64 89 5 1.0 17 30.25 1.2021 30.227 28 0.00 72 20 1000 1024.4 17 30.25 1.1970 30.233 73.3 64 105 5 10 72 0.00 72 74 1100 1024.5 75.3 63 117 5 11 16 30.25 1.1925 30.235 66 0.00 76 24 1200 1024.4 76.8 63 122 1.1 15 30.25 1.1892 30.233 63 0.00 78 76 1300 1024.4 77.5 63 125 6 12 14 30.25 1.1877 30.233 22 60 0.00 28 1400 1024.2 77.4 61 131 6 16 30.25 1.1880 30.227 11 22 58 0.00 78 1500 1024.0 77.3 61 126 6 12 15 30.24 1.1879 30.220 58 0.00 77 28 1600 1023.7 76.7 61 141 5 11 16 30.23 1.1892 30.213 58 0.00 76 1700 1023.6 77.1 61 151 5 10 17 30.23 1.1881 30.208 57 0.00 78 76 76.4 61 154 1800 1023.6 5 1.0 14 30.23 1.1897 30.209 59 0.00 77 26 1900 1023.5 74.6 62 126 12 12 30.23 1.1934 30.207 64 0.00 26 73 2000 1023.5 72.3 63 129 13 12 30.22 1.1983 30.205 21 0.00 73 21 2100 1023.9 70.3 61 159 10 30.24 1.2036 30.219 12 73 0.00 71 69 2200 1024.3 68.1 59 171 6 12 30.25 1.2096 30.230 23 0.00 69 67 2300 1024.3 66.3 59 180 6 11 9 30.25 1.2140 30.231 26 0.0**0** 67 66 2400 1024.4 65.3 59 192 11 8 30.25 1.2162 30.233 80 0.00 66 65 Min 1019.8 65.3 59 8 8 30.12 1.1877 30.098 52 0.00 66 65 Ave 1023.2 71.9 62 118 6 12 14 30.21 1.1991 30.197 73 0.00 73 71 May 1024.5 77.5 66. 8 15 17 30.25 1,2162 30,235 90 0.00 1.5 4.2 2 1 2 3 .04.0091 .04512 0.00 Tot.

STD

0.00

## APG SurfaAMSOHaaryatsammaF\$ZedAddtanRepaut for Euro

Elevation(ft): 16 Latitude : 39.50 17 JUN 1992 Spesutie Island Longitude : 76.07

Time hhmm	Sea Lv Press mb	Hir Temp F	Pt	WD	ผร	ldnd Spd	Dir	-eter	ity	Sta. Press. in Hg	RH	cip	Max Tmp F	Min Tmp F	MBG Tmp Id× F
100	1024.4	64.1	59	183	5	9	7	30.25	1.2189	30.232	83	0.00	65	64	
	1024.1	63.6			5	7			1.2197		84	0.00	64	63	
	1024.4	64.6			5	8			1.2177		85	0.00	65	64	
	1024.4	64.2			5	9	7	30.25	1.2185	30.232	85	0.00	65	63	
	1024.7	62.2			4	5	5	30.26	1.2240	30.241	88	0.00	63	62	
	1025.0	63.4			4	7.3	6	30.27	1.2211	30.252	88	0.00	65	61	
	1025.5	67.9			5	8	9	30.28	1.2106	30.266	84	0.00	- 69	66	
	1026.0	20.4			5	8	13	30.30	1.2053	30.279	80	0.00	72	69	
	1026.6	72.0			5	9	14	30.31	1.2021	30.297	77	0.00	73	71	
	1026.4	23.4			6	12	15	30.31	1.1991	30.293	71	0.00	74	73	
	1026.2	25.2			5	1.0	21	30.30	1.1946	30.287	71	0.00	77	74	
	1026.0			212	5	9	19		1.1905		69	0.00	78	76	
	1.025.4	78.1	66	195	5	9	19		1.1867			0.00	80	77	
	1025.0	80.1	64	217	5	8	19	30.27	1.1824	30.249	57	0.00	81	79	
1500	1024.3	80.5	63	212	- 5	9	•		1.1809		55	0.00	81	80	
1600	1023.8	80.9	64	215	5	9	17		1.1794		56	-	81	81	
	1023.2	79.7	63	207	- 2	11	1.3		1.1813			0.00	81	78	
1800	1022.8	77.3	63	218	7	12			1.1864		61	-	78	76	
1900	1022.7	75.1	63	207	- 7	12	1.0		1.1910		-	0.00	76	74	
2000	1022.6	71.9	61	188	7	12	8		1.1985			0.00	74	70	
2100	1023.2	69.2			7	12			1.2056		72	0.00	70	68	
2200	1023.7	67.0			6	12			1.2115			0.00	68	67	
2300	1023.8	66.3	56	166	8	14			1.2140			0.00	67	66	
2400	1023.2	64.3	54	164	8	14	9	30.22	1.2180	30.198	70	0.00	66	63	
Hin	1022.6	62.2	54		4	5			1.1794		55	0.00	63	61	
Ave	1024.5	71.2		193	6	1.11	12	30.25	1.2024	30.235	72	0.00	72	20	
Max	1026.6	80.9			8	14			1.2240		88	0.00	81	ខា	
STD	1.2	6.4	3		1	2	5	. 04	.0149	.036	17	0.00	6	6	
Tot									•			0.00			

#### SAMS Hourly Summarized Data Report

Elevation(ft): 16

Latitude : 39.50 Longitude : 76.07 18 JUN 1992 Spesutie Island

						Pk	STD								ผBG
	Sea Lo	Air	Dω	Ave	Αv	blnd	Wnd	Altim	Dens-	Sta.		Pre-	Max	Min	
Time	Press	Temp	Pt	WD	615	Spd	Dar	-eter	ity	Press.	RH		Tmp		-
hhmm	mb	F						in Hg		in Ha	*	in	F	F	F
							-	•	•	_					
1.00	1022.8	61.8	55	180	7	12	8	30.20	1.2234	30.186	78	0.00	63	61	
200	1022.7	60.9	56	184	6	1.1	8	30.20	1.2250	30.182	84	0.00	61	61	
300	1022.5	60.7	57	187	4	8	8	30.19	1.2250	30.176	89	0.00	61	6.0	
400	1022.1	61.4	59	190	5	1.0	9	30.18	1.2225	30.165	94	0.00	62	61	
500	1021.8	61.9	61	185	5	8	8	30 17	1.2206	30.156	95	0.00	63	62	
600	1021.4	64.0	63	190	5	8	1.0	30.16	1.2149	30.145	95	0.00	66	63	
	1021.1	66.7	65	180	7	11	1.0	30.15	1.2079	30.137	93	0.00	- 68	66	
800	1020.9	69.6	66	178	8	14	1.7	30.15	1.2004	30.131	90	0.00	72	68	
900	1020.6	73.1	67	194	1.0	18	12	30.14	1.1920	30.121	81	0.00	75	72	
1000	1020.6	75.9	66	194	1.1	19	1.2	30.14	1.1860	30.121	71	0.00	77	75	
1100	1020.4	77.2	66	188	11	17	11	30.13	1.1830	30.116	68	0.00	-78	77	
1200	1019.9	78.9	66	181	1.0	16	11	30.12	1.1786	30.101	65	0.00	80	78	
1300	1019.1	80.6	66	173	1.0	18	13	30.09	1.1741	30.077	61	0.00	81	80	
1400	1018.2	81.0	66	188	1.0	18	16	30.07	1.1721	30.049	6.0	0.00	82	811	
1500	1017.6	80.2	65	195	1.0	15	1.1	30.05	1.1732	30.032	61	0.00	81	80	
1600	1017.0	29.9	65	199	10	16	1.0	30.03	1.1732	30.015	61	0.00	81	79	
1700	1016.4	78.3	64	202	8	1.3	1.0	30.01	1.1765	29.997	61	0.00	79	77	
1800	1015.8	77.1	63	190	. 8	13	8	30.00	1.1785	29.979	62	0.00	777	76	
1900	1015.5	75.7	61	176	- 7	12	9	29.99	1.1819	29.971	59	0.00	.76	75	
2900	1015.0	74.5	59	179	7	14	9	29.97	1.1842	29.956	59	0.00	75	74	
2100	1014.7	73.6	60	182	8	13	9	29.96	1.1857	29.947	63	0.00	74	73	
2200	1014.4	72.8	61	181	8	14	9	29.96	1.1866	29.937	67	0.00	23	73	
2300	1013.7	72.1	62	179	9	15	9	29.93	1.1874	29.917	71	0.00	73	72	
2400	1013.2	70.7	62	172	8	14			1.1899		74	0.00	71	70	
		,													
Man	1013.2	60.7	55		4	8	8	29.92	1.1721	29.903	59	0.00	61	6.0	
Hoe	1018.6	72.0	63	185	-8	14	1.0	30.08	1.1934	30.063	74	0.00	73	71	
Max	1022.8	81.0	67		11	19	16	30.20	1.2250	30.186	95	0.00	82	8.0	
STD	3.2	7.0	3		2	3	?	. 09	.0188	. 093	13	0.00	7	7	
															:
Tot												0.00			

## SAMS Hourly Summarized Data Report

Elevation(ft): 16

Latitude : 39.50 19 JUN 1992 Spesutie Island

Longitude : 76.07

							STD								WBG
	Sea Lo	Air	Dω	Ave	Αo	lilmd	Mnd	Altim	Dens-	Sta.		Pre-			
Time		Temp	Pt	្រមា	ผร	Spd	Ur	-eter	ity	Press.			Tmp	Tmp	Idx
משכן כן	шÞ	F	F	deg	kt	1.+	កាក់ពួ	ın Hg	kg∕m3	in Hg	94.	in	F	F	F
	1012.5	69.9	63	174	7	12	9	29.90	1.1908	29.883	78	0.00	20	69	
	1012.0	67.8	65	174	- 6	; F	'4	29.89	1.1943	29.868	9.0	.01	69	6.7	
300	1011.2	67.8	66	163	- 7	1 -	127	29.86	1.1931	29.843	93	. 01	68	68	
	1010.8	67.6	66	179	6	1.1	1.0	29.85	1.1931	29.831	96	.60	68	62	
	1010.1	68.4	68	157	7	1.3			1.1900		99	. 08	69	62	
600	1009.9	70.0	70	172	7	1.2			1.1856		99	. 01	71	69	
700	1009.5	71.5	71	179	7	10			1.1814		98		72	21	
	1009.3	71.8	71	185	8	1.4			1.1807		96	0.00	73	71	
	1009.0	73.8	72	189	9	16			1.1755		93		74	24	
1000	1008.8	74.2	72	189	8	1.4			1.1744		93		75	24	
1100	1008.6	74.5	72	193	9	15			1.1735		92	0.00	25	74	
1200	1008.1	25.1	73	193	8	14			1.1713			0.00	26	75	
1300	1007.3	75.3	73	193	10	1 4			1.1701		91	0.00	26	75	
	1086.9	77.6	74	201	1.0	15.			1.1643		88	0.00	78	26	
	1006.5	79.3	25	202	9	14			1.1599		86	0.00	80	78	
	1006.2	79.9	_	206	8	1 -	1 11	29.72	1.1582	29.697	84	8.00	80	78	
	1006.0	76.6	72	236	5	1.7	15	29.71	1.1657	29.689	86	0.00	78	24	
	1004.8	74.4	_	208	3	F.	l Es	29.62	1.1698	29.656	88	0.00	25	74	
	1005.2	74.5			3	~	19	29.69	1.1698	29.668	89	0.00	26	73	
	1005.7	73.0		23	3	F-	1 6	29.70	1.1738	29.682	91	0.00	74	73	
	1005.9	72.8		39	3	E.	16	29.70	1.1745	29.686	91	0.00	73	73	
	1005.8	72.0		5.1	5	ι:	35.	29.70	1.1762	29.685	94	.17	73	21	
	1005.4	20.4		285	1	٠ }			1.1796		96	0.00	21	20	
2400	1005.2	70.3	69	313	1	4	₽F.	29.68	1.1796	29.667	97	$\theta \neq 0.0$	21	70	
Hin	1004.8	67.6	63		1	-1	9	29.67	1.1582	29.656	28	0.00	68	67	
Ave	1008.0	72.9	<b>7</b> 0	188	6	11			1.1769		92	.04	74	72	
Max	1012.5	79.9			10	1.6			1.1943		99	60	80	28	
CYCE.															
STD	2.3	3.5	3		3	-	F.	.07	.0103	.069	5	. 13	4	3	
Tot												.88			

## SAMS Hourly Summarized Data Report

Elevation(ft): 18

Latitude : 39.50

Longitude : 26.07

20 JUN 1992

Spesutie Island

0.00

							STO								ME
	Sea Lo	Air	Dы	Ave	Ĥĸ	Mad	Morel	Altam	Dens-	Sta.		Pre-	May	than	
Time		Lemb	Pt.	ap	MS	Spot	figr	-eter	itu	Press.	RH		Tmp		
ի hmm	m b	F	F	deg	\$t <b>t</b> .	kt.	deg	in Hg	kg/m3	in Hg	3.		F	F	F
100										•			-	•	•
	1005.1	20.8			3	9	17	PA: 68	1.1782	29.664	96	0.00	21	70	
	1004.9	20.5		314	-1	• .	2 11	79.68	1.1789	29.657	94	0.00	71	20	
	1004.9	-20.1		337	3	8	21	29.67	1.1799	29.657	95	0.00	71	$\neg n$	
	1005.3	70.2			4	- 8	16	29.69	1.1800	29.669		0.00	71	2 y	
	1005.7	69.3	-	311	5	1.0	18	29.20	1.1829	29.682	94	0.00	20	64	
	1005.6	68.7		335	5	1.0	2 1)	29.70	1.1844	29.678	93	0.00	69	69	
	1006.2	69.3		323	2	1.5	211	29.71	1.1836	29.695	91	0.00	20	69	
	1006.7	69.4		334	É	13	2.1	29.73	1.1842	29.711	88	0.00	70	69	
	1007.0	21.2			6	13	17	29.74	1.1295	29.720	82	0.00	73	711	
	1007.4	77.8			±	: 2	15	29.75	1.1776	29.732	77	0.00	- 24		
	1008.1	21.9			r.,	1.1	19	29 77		29.753	78	0.00	72		
	1008.6	72.6			۲,	13	1.9	39.78	1.1796	29.767	22	0.00	73	· · ·	
	1008.3	76.1			ᆛ	9	21	29, 78	1.1711	29.758		0.90	77		
	1007.7	77.4		309	e,	10	19	79.26	1.1625	29.739	69	0.00	78		
	1007.4	28.2			5	1.1	17	°9 75	1.1655	29.732		0.00	79	~* <sub>}</sub> .	
	1007.2	78.0			€.	12	17	29.24	1.1661	29.727		0.00	7H		
	1007.3	26 · 6			6	i 2			1.1696			0.00	78	Π <sub>F</sub> ,	
	1007.9	24.9			£.	14	20	09.76	1.1742	29.745		0.00	26	- 2	
	1008.7	72.1			7	iS	20	9.29	1.1819	29.769		0.00	24	741	
	1009.3	67.7			8	17				29.788	24	-	69	66	
	1010.0	65.0			3	i 7			1.2002		72	0.00	.66	4.4	
	1010 4	64.0	55	334	* *	16	20	99.84	1.2032	29 821		0.00	65	6.3	
	1010.8	63.1	55	330	6	12	21	19.85	1.2859	20 830		8.00	64	63	
2400	1011.3	62.3	54	311	;=.	3			1.1084			0.00	63	BC	
							• •			2. 10. 1 101		11 . 1111	0.5	Pi.	
111 11	1004.9	62.3	<sup>©</sup> , ∠}		:	9	16	9.67	1.1655	29 682	e a	0.00	6.3		
HITE	1007.6	21.0	64	325	í.	12	19	19 <b>75</b>	1.1823	201.00% 29 727		8.00	63 72	60 711	
115.	1017.3	28.2			a	17	21	98	1.2084	77.737 90 0.15					
						•	•		1.2007	A 37 - 1974 (3)	20	0.00	. 79	` <b>'</b> }:	
HTH.	1.9	4.5	5		1	3	2	. 05	.0120	. 055	1.1	0.00	5	÷	
Tot										* *** ****	.,		.,•	٦	
1.19 %															

#### SBMS Hourly Summarized Data Report

						Ph.	STO								ывс
	Sea Lo	Bir	Dut	Rue	80	Here!	1.15.4	Attim	Dens-	Sta.		Fre-	Max	115 15	Trap
Til me	Frass									Press.				Traga	
F. Sanan	mh	F		dec					kg/n3		*	าก	¥.	٠	F
				•			•		-	•					
1 33 13	10110 8	61.7	5,3	37%	۲.	12	20	28.85	1.2891	29.838	77	11.1111	$E^{**}$	6.1	
23311	1318.6	61.11	54	337	٠.	12	30	79.84	3.7306	29.826	28	$\mathbf{n}$ , $\mathbf{n}$	<b>6</b> :	<b>F</b> . :	
BBB	1970.8	BB.B	5.4	3457	-	: 1	19	99 84	1.2112	29.875	28	11.1133	6:	E	
400	3.83 B. B	58.9	53	3377	27	10	18	29.84	1.2333	29.874	79	$\Pi$ , $\Pi H$	6::	5.9	
5,00	3.010.2	58.2	44	348	÷.	1.1	21	79 RN	42350	29.822		n. gn	<b>C</b> ,	59	
6.03	1011.5	59.3	5.4	300	E.	11	15	29.82	1.2158	29.857	800	រា . ព្យ	611	59	
Con	3.037.3	59.0	54	311	f.	12	20	28.88	1.2125	29.878	8.7	и. ди	5.9	5 1	
F 1111	1812 5	80.8		37.1	5-1	: 2	23	29.90	1.2129	29.888	80	$\Pi$ . $\Pi\Pi$	E	511	
9:00	1817.6	63.1	SE	310	5	: 1	20	29.91	1.2028	29.885	28	0.00	<b>6</b> (4)	600	
3 22 11 22	1817.9	BE,B	52	308	45	10	24	28 81	1.2008	28 883	24	$\mathbf{H}$ , $\mathbf{H}\mathbf{H}$	F.13	Ε	
17.00	1010101	600.5	52	300	6	12	17	29.91	1.3953	29.888	EG.	$H(B) \in H$	2.0	長星	
41.00	1887.4	20.2	$\vdash_{i} \mathbb{T}^{*}$	304	e,	: 4	21	73 98	1.1910	29.877	-6.4	$H_{\rm T},HH_{\rm T}$	21	E/S	
1 41111	: :: : · · · · B	68.8	56	311	F.	i 4	19	29 88	1.1912	29.867	$E^{*}$	H : HH	21	6Y	
7.2999	1001.9	71.4	52	282	$\succ$	: 6	19	29 88	1.1829	29.863	₽.00	$\Pi:\Pi\Pi$	23	E.H	
: 5:1111	30031.8	20.5	55	295	8	: 8	17	79.88	1.1982	29.887	A 11	0.00	2:	7111	
1800	1957 P. H	BR B	54	37.4	1	17	21	79.89	1.1948	29.888	$E^{*}$	$\tilde{\Pi} : \tilde{\Pi} \Pi$	2.11	E:::	
1.300	1002 5	677.8	53	314	9	19			1.1993			0.40	68	<i>6</i> 25	
15.88	7.813.31.3	E4 3	53	3377	14	18	-		1.2085			B . HB	F. 5	$\mathbf{G} \oplus$	
3.7231311	1003 8	601.2	49	33.0	1.11	21	17	28 94	1.2125	29.978	$E_{\cdots}$	$\mathbf{n}$ , $\mathbf{n}$	F) 4	6	
7:::1111	141.1.1	$\mathbf{S} H : H$	477	209	2	15	16		1.2182			0.000	<b>6</b> 3	5	
7 : ::::	14014 4	58.0	46	$\Delta E_{\rm sol}^{\rm op}$	$\mathbf{E}$	13			1.2235		E.S.	и ии	5551	5	
71111	1814 B	5% B	45	201	<u> </u>	9			1 2343			0.000	5	5:	
2.000	1004 5	54 11	45	បន្ទា	5.	9			1.7334			11 1111	<u> </u>	5 :	
2.480	1014 5	53.9	48	778	E	12	12	79.98	1.2334	29.933	714	म . मिहे	55	5:	
Han	1818 6	53 9			Ξ.	9			1.3879			22 H.H	F. 4	4	
5-02A	1010.5	<b>67.7</b>	$\gamma_1(s)$	308	£	13			1.2493			11 . 1111	€ 4	67	
Max	1004.6	21.4	5.2		10	21	24	79.7%	1.7334	29.843	200	# . #H	1.73	20	
Min. t	1.3	5.3	4		1	3	4	. 114	.0734	. 1939	141	9.119	5	5	
iot												B . HD			
1 (1)															

*Times li	sted a	re real time - no corrections	are necessar	*		
				TOTAL		
		SKY CONDITION	VISIBILITY	SKY	TOTAL	KEY
DATE	TIME			COVER	OPAQUE	;
		( x 100 = Height in feet )	(Hiles)	1/10's	<u> </u>	In Count For
15 June 92	0830	0	7	0	0	GF= Ground Fog F= Fog
7004-7072	0900	0	6 H	0	0	H= Haze
	1000	C	6.H	0	0	.K. Smoke
	1100	0	7	0	0	BS- Blowing Sno
	1200	0	7	0	0	BN- Howing San
	1300	270 -0	7	3	1	BD- Blowing Dust
	1400	270 -0	7	1	0	IF= Ice Fog D= Dust
	1500	770 -0	23	3	1	BY= Hlowing
	1600	770 - dp	E	6	2	Spray
16 June 92		250 - CID	<b>()</b>	6	()	**********
16 Jane 12	0900	250 - KIP	9	6	0	T- Thunderstor
	1000	250 - CTD .	10	6	3	T+= Severe - Thunderston
	1100	250 - ap .	10	6	3	R= Rain
	1200	30 CD 250 CD	10	5	3	RW= Rainshower
	1300	30 00 10 00 E250 (L)	10	7	5	L= Drizzle
	1400	30 CD = 70 CD	10	7	7	ZR= Freezing
	1500	30 CL ETOOD ZOODD	9	9	7	Rain
	1600	30 CL MO DEZOLAD	10	7	7	ZL= Freezing Drizzle
17 June 92		1200 250 -00	10	4	2	IP- Ice Pellets
17 SUNE 12	0900	250 - G	10	3	0	(Sleet)
	1000	250 -0	10	2	0	IPW=Ice Pellet
	1100	250 -01	16	2	0	Sho⊭er
	1200	250 -0.	10	2	0	S= Snow SW= Snow Shower
	1300	30 @ 150 -@	10	3	1	SP- Snow Pellets
	1400	30 a 250 - Cb	10	4	2	SG= Snow Grains
	1500	30 as EZOOBKN	10	7	4	IC= Ice Crystals
	1600	30 (1) E200 BKN	10	7	4	A= Hail
18 June 92		0	10	0	O	Intensity of
18 June 16	0900	30 CL	10	Z	2	precip.:
	1000	30 (b)	10	2	2	_ = Light
		300	10	2	2	+ = Heavy
	1100	40a) .	10	4	4	No symbol =
	1200	400	10	Ž	7	Moderate
	1300	40 0) E180 00	10	6	6	*****
	1400 1500	40 02 E180 OD	10	6	6,	Sky Condition: O= Clear =
			10		7	less than
A June 92	1600	E180 (1) E50(1) 140 (A)	6RW-F	7	10	1/10
AJ JUNE 11		70E50(D)	6 F	9	9	O- Scattered =
ll .	1000		6F	10	10	1/10-5/10
		E1001300	7	10	10	D= Broken =
	1100	E1000 300	7	10	10	6/10-9/10
	1200	E300	1	10	10	Overcast = 10/10 of
	1300	F300	7	10		sky is
	1400	E30 00		10	10	covered.
	1500	E308-	7			
11	1600	E304	1	10	14	

NOTE: A layer of clouds is considered to be thin if \( \frac{1}{2} \) or more of it is transparent; the sky condition symbol will be preceded by a (-) in such cases.

Visibilities of 7 or more miles are classified as unrestricted.

(-I) = sky partially obscured by surface based phenomena

(W2 X) = sky completely obscured; vertical visibility is 200 feet

#### SAMS Hourly Summarized Data Report

Elevation(ft): 16

'nt

Latitude : 39.50 6.00. 1992 Spesutie Island Longitude : 26.02

Pk STD 61894 Air Dw Ave Av Whit Whit Altim Sea Lo Dens-Sta. Pre- Max Min Tmp Time Temp Pt 600 60S Spd Dir -eter Press ity Press. RH Can Thin Thin Ids hihaam F deg kt. mb kt deg in Hq kg/m3 in Hg 3 n 100 1008.8 74.4 22 225 15 11 29.29 1.1238 29.223 93 . 01 75 73 200 1002.8 22.5 20 224 7 13 11 29.26 1.1225 29.244 93 . (11 24 22 300 1002.8 22.1 20 295 3 22 29.76 1.1285 29.742 93 0.00 22 71 400 1008.2 20.2 69 202 4 2 12 29.22 1.1822 29.254 95 0.0021 20500 1008.4 71.11.69 242 10 29.28 1.1818 29.262 94 0.0021 21 680 JR89.1 78.4 69 255 2 18 29.88 1.1841 29.282 94 0.0021 211 700 TIM9.6 21.1 69 236 2 11 29.81 1.1830 29.792 93 0.0071 21 880 1010.3 21.7 20 259 3 12 29.83 1.1823 29.812 93 0.0073 21 900 1010.8 22.2 20 345 19 29.85 1.1808 29.832 11 911 0.00 フソ 1000 1010.8 72.4 68 14 14 29.85 1.1819 29.833 11 8£ 0.001100 1011.5 21.8 62 5 1.1842 29.853 17 29.82 85 0.00 72 21 1200 1011.4 21.6 68 28 1.1844 29.848 18 29.82 88 0.10 72 1308 1010.9 73.5 68 35 3 18 29.85 1.1296 29.836 83 0.00 26 29 26.2 68 1406 1010.8 24 3 12 29.85 1.1235 29.832 26 0.00 22 1500 1011.n 77.9 BB 62 3 4 14 29.86 1.1204 29.838 67 -0.0079 1600 1011.0 79.0 66 91 3 5 14 29.86 1.1682 29.838 64 0.00 811 78 1200 1010.8 80.0 62 102 15 29.85 1.1656 29.833 64 B.nn 811 811 1800 (010.2 28.8 66 161 5 15 29.85 1.1681 29.829 66 0.00811 28 26.0 68 1900 1010.9 201 8 29.85 1.1241 29.835 22 **10** . 0 m 78 24 2000 1011.3 72.3 62 198 9 29.86 1.1828 29.842 83 0.00 74 71 2100 1012.1 69.0 65 2411 18 29 89 1 1915 29 869 89 0.00 71 68 2200 1012.5 68.4 66 262 3 5 29.98 1.1933 29.882 1 93 0.00 69 60 2300 1012.8 71.2 68 2811 3 8 13 29.91 1.1868 29.891 90 0.00 22 69 2400 1013.2 21.4 62 16 29 92 1.1820 29.901 86 0.00 21 ti n 1002.8 68.4 65 1 3 5 29.26 1.1656 29.242 64 0.00 62 Aue 1010.5 73.2 68 269 7 3 14 29 84 1.1298 29.824 85 .08 72 1013.2 1ax 80.0 72 8 15 22 29.92 1.1933 29.901 95 . #1 80STD 1.5 3.2 2 2 3 .04 .0022.014510 . 00 3 3

. 42

#### SAMS Hourly Summarized Data Report

Elevation(ft):

16

Latitude : 39.50 Longitude : 76.07 7 JUL 1992

Spesutie Island

T'ıme	Sea Lo Press	Air Temp	-			lilnd		Altım -eter	Dens-	Sta. Press.	БH	Pre-		מו תתT	
երաա	mb	पुणका न		dea		-		in Hg	kg/m3		rn Sk	3 n	F	F	F
		•	•	oug			og	111 /19	g,	1g	•		•	•	•
1 nn	1013.4	71.3	67	305	5	10	14	29.93	1.1877	29.908	85	o.nn	72	71	
500	1013.6	71.1	65	321	6	12	2.0	29.93	1.1889	29.914	80	0.00	21	21	
300	1013.8	70.8	64	349	6	11			1.1901	29.921	78	0.00	71	21	
4111)	1014.2	69.7	63	356	6	11	17	29.95	1.1931	<b>2</b> 9.933	80	<b>0</b> , $0$ $0$	71	69	
500	1015.2	68.2	62	14	7	12	14	29.98	1.1969	29.961	78	<b>0</b> , $0$ $0$	69	68	
	1015.7	88.6	61	15	7	14	14	29.99	1.1980	29.977		ស្រួក	69	68	
200	1016.7	69.3	61	6	7	13	15		1.1974			0.00	20	69	
	1017.2	20.5	61.	16	7	13	13		1.1953			0.00	71	711	
900	1017.7	72.1		2 n	6	12			1.1923			n. nn	73	71	
1000	1012.8	73.8	62	23	4	8	16		1.1883			0.10	25	73	
1100	1018.3	76.6	63	68	2	- 5	19	30.07	1.1825	30.052	63	0.00	フィ	25	
1588	1018.4	28.4	62	22	2	5	2.1	30.07	1.1788	30.056	58	0.00	80	77	
1300	1018.3	29.8	62	332	4	8	24	30.02	1.1758	30.053	55	0.80	811	79	
1400	1018.1	80.3		358	3	7	26		1.1745		53	0.00	8.5	24	
	1018.0	80.0			3	7			1.1752		52		81	29	
	1018.0		-	343	4	10			1.1758		511		82	79	
	1018.1	811.4		341	5	10	21		1.1748		42	0.00	81	811	
	1018.2		58	301	5	10			1.1755		46	0.00	81	811	
	1018.4	29.5	-	322	3	7	-		1.1775		46	0.00	ВII	7X	
	1018.6	75.2	_	300	2	4			1.1872		53	0.00	29	711	
	1019.2	-	61	247	2	3			1.2062		83		711	65	
	1019.6	66.6		246	2	3			1.2065		911		68	65	
	1019.9	65.7	-		1	.3		-	1.2093		-	0.00	62	65	
2400	1019.9	64.5	62	265	2	4	17	30.12	1.2121	38.895	918	H . HB	62	67	
145.55	1813.4	64.5	52		1	3	5	29.93	1.1245	29.908	46	0.00	62	62	
isse	3.0177.3	23.3	61	349	4	9	17	30.04	1.1892	30.024	88	0.00	74	72	
114.	1019.9	80.4			7	14	27	30.12	1.2121	30.099	911	0.80	82	80	
STD	2.0	5.4	2		2	4	5	. 06	.0119	.058	15	0.00	5	F.	
Trat.												0.000			

#### SAMS Hourly Summarized Data Report

Elevation(ft): 16

8 JUG 1992 Spesutie Island

Latitude : 39.50 Longitude : 76.07

	Sea Lo					lilnd				Sta.		Pre-			
Tame	Press	Temp							1, 1, 1, 1		RН	erp		Tmp	
hhmm	mb	F	F	deg	kt.	kt.	deg	in Hg	kg/m3	in Hg	*	חנ	F	F	F
100	1019.9	67.3	63	331	1	5			1.2053			<b>0</b> , $0$	69	ស្រ	
200	1019.6	69.8	64	4	2	5	17	30.11	1.1990	30.092	83	0.00	711	69	
300	1019.6	65.9	63	301	1	4	.9	30.11	1.2083	30.09%	83	<b>0</b> . The	70	63	
41111	1019.5	65.0	64	329	1	3			1.2101		95	0.00	66	63	
500	1020.1	62.8	61	247	2	3	11	30.12	1.2164	30.106	94	0.00	65	62	
600	1020.B	65.7	63	32	1	4	9	30.12	1.2092	30.103	92	0.00	7.5	67	
200	1020.5	24.0	68	13	2	3	25	30.14	1.1896	30.119	8.5	0.00	25	72	
800	1021.1	25.1	68	63	2	4	19	30.15	1.1828	30.134	78	ម. មា	76	74	
9110	1020.9	25.4	67	196	6	9	14	30.15	1.1872	30.130	26	0.00	77	74	
1000	1020.8	78.0	68	202	6	10	14	30.14	1.1811	30.125	71	0.00	ВH	76	
1100	1020.4	79.2	62	216	8	12	11	30.13	1.1784	30.116	55	0.00	81	29	
1200	1019.8	811.8	62	214	8	14	1.3	30.12	1.1253	30.098	53	0.00	82	811	
1300	1019.3	82.2	61	208	7	1.3	12	30.10	1.1719	30.081	50	0.00	83	81	
1400	1018.4	83.2	61	208	В	13	13	30.02	1.1682	30.056	48	0.00	84	82	
1500	101870	82.8	61	220	9	14		-	1.1690			0.00	84	87	
1600	1012.2	81.3	63	206	.9	17			1.1711			0.00	82	811	
	1016.2	80.1		197	10	16	-		1.1725		-	0.00	81	811	
	1015.2	79.3			9	16			1.1235		-	0.00	8 II	79	
	1016.1	28.3			.9	16	_		1.1762		-	0.00	29	77	
	1014.8	25 . <b>5</b>			8	13			1 . 1895			0.00	26	75	
2100.	1015.0	74.6			8	15			1.1821			(11)	25	74	
5500	1014.6	74.0	69	176	9	16	-		1.1824		-	D . HH	74	74	
2300	1013.2	74.1	70	174	9	15	8	29.92	1.1805	29.903		0.00	24	74	
24111	1011.9	74. ñ	21	185	9	16	9	29.88	1.1225	29.863	87	0.00	26	74	
Min	1011.9	62.8	61		1	3	8	29.88	1.1687	29.863	42	0.000	65	62	
Abe	1018.0	25.0	65	197	6	11	12	30.06	1.1856	30.045	22	H. UÜ	26	24	
Max	1021.1	83.2	71		10	17	25	30.15	1.2164	30.134	95	0.00	84	82	
STD	2.7	6 . 1	3		3	5	5	. 08	. 0146	. 1179	16	0.00	5	6	
Tot												n.nn			

# APG Surface Observations EST (Add one hour for EDT) SAMS Hourly Summarized Data Report

Elevation(ft): 16 Latitude : 39.50 9 JUL 1992 Spesutic Island Longitude : 76.07

						Pk	STD								MBG
	Sea Lo								Dens-			Pre-			
Time	Press	Temp	Pt.	(H)	WS	Spd	Dir	-eter	ity	Press.	ВH	oip	Tmp	Tmp	Id×
hhmm	mb	F	F	deg	kt.	kt.	deg	in Hg	kg/m3	in Hg	*	ı n	F	F	F
				-			_								
100	1010.2	77.5	73	205	13	19	8	29.85	1.1691	29,829	86	0.00	78	76	
	1089.8	27.0			13	22	9	29.82	1.1691	29.803	87	0.00	28	77	
300	1009.2	26.5	73	221	11	20	9	29.80	1.1695	29.785	911	0.00	77	76	
41111	1009.2	26.3	24	222	8	14	9	29.80	1.1696	29.284	9.5	O.IIII	76	76	
500	1009.3	76.5	74	223	7	1.0	9	29.80	1.1693	29.787	9.2	0.00	77	76	
600	1009.6	27.0		227	7	11	9	29.81	1.1684	29.797	92	0.00	78	77	
200	1009.6	28 . B	26	231	7	13	11	29.81	1.1642	29.796	911	0.00	811	フド	
8111)	1009.9	80.9	77	241	7	12	11	29.82	1.1598	29.805		0.00	8.5	8 11	
900	1010.4	83.4	28	244	- 6	11			1.1546		-	0.00	85	82	
1000	1010.2	86.0	28	238	6	13			1.1490			0.00	82	85	
1100	1010.7	87.8	79	257	6	16			1.1453			0.00	911	86	
1200	1010.4	89.5	77	264	8	16			1.1420			0.00	91	8.4	
1300	1010.3	89.4	76	245	7	13	_		1.1423			n.nn	93	8H	
1400	1010.1	88.4		213	7	14			1.1428			0.00	911	82	
1500	1009.8	90.3		555	В	14	_		1.1391		68	0.00	91	BH	
	1009.7	88.0			9	14	_		1.1437			0.00	89	87	
-	1009.7	88.1			7	13			1.1433			0.00	89	82	
1800	1009.6			212	6	9			1.1471			0.00	87	86	
1900	(1) n9 . 9	86.3			5	10			1.1478			0.00	87	85	
2000	1010.1	86.0			6	11			1.1490			0.00	87	85	
2100	1010.8	85.0			5	9	-		1.1523			0.00	85	84	
	1011.4	83.8			6	.9	8		1.1558			0.00	85	83	
5300	1011.5	81.9	_		4	7	8		1.1605		75	0.00	83	81	
2400	1011.7	80.1	72	246	4	7	8	29.88	1.1648	29.857	77	0.00	ខា	811	
						_	_			20 500	0.0		516	30	
Man	1009.2	26.3			4	7			1.1391			0.00	26 04	76 92	
Ave	1010.2	83.4		558	7	13			1.1549			0.00	84	83	
Max	1011.7	90.3	80		13	22	15	29.88	1.1696	29 . 857	92	O. HU	91	89	
STD	.7	4.9	2		2	4	2	. 82	0109	. 021	8	0.011	5	5	
310	. /	4.3	2		2	4	2	. 11 %	. 111,133	. 0 /. 1	•,•	.,, .,	.,	.,	

#### SAMS Hourly Summarized Data Report

Elevation(ft): 16 Latitude : 39.50 10 JUL 1992 Spesutie Island Longitude : 76.87

Time hhmm	Sea Lo Press mh	Air Temp F	Pt.		WS	lilnd Spd	Dir	A)tim -eter in Hg	•	Press.	ВН %	Pre- cip in	Max Tmp F		
1111	1011.9	29.5	23	297	4	7	20	29.88	1.1663	29.864	811	0.00	80	79	
200	1012.1	26.8			2	4	16	29.89	1.1722	29.869	82	0.00	79	<b>26</b>	
300	1012.2	23.8			1	3	15	29.89	1.1794	29.874	92	n.nn	<b>76</b>	73	
	1012.9	72.6			2	3	111	29.91	1.1830	29.894	94	0.00	73	72	
500	1013.4	23.5			2	5	13	29.93	1.1815	29.909	94	0.00	26	72	
	1013.5	26.5		6	3	5	13	29.93	1.1245	29.911	89	0.00	77	76	
	1014.0	29.5	74	350	2	4	22	29.94	1.1682	29.922	84	0.00	82	77	
	1014.6	81.6			4	6	13	29.96	1.1644	29.944	79	0.00	83	81	
	1014.2	84.1			3	6	16	29.96	1.1591	28.942	72	0.00	86	87	
1000	1014.6	86.2		221	4	7	18	29.96	1.1542	29.944	62	0.00	88	85	
1100	1014.2	98.0	24	209	4	9	26	29.95	1.1503	29.933	64	0.00	89	82	
1200	1013.6	87.8	26	119	4	8	21	29.93	1.1496	29.914	68	0.00	90	82	
1300	1012.2	89.3	26	172	6	12	17	29.91	1.1454	29.889	65	0.00	91	87	
1400	1012.0	91.1	26	198	8	13	10	29.89	1.1408	29.868	61	0.00	92	91	
1500	1011.4	91.4	26	203	9	13	9	29.82	1.1393	29.850	62	0.00	92	911	
1600	1011.0	92.1	77	213	Ÿ	13	-		1.1373			0.00	93	91	
	1010.6	90.0			7	12			1.1412		-	0.00	92	89	
	1010.4	88.8			6	11	10		1.1432			0.00	89	88	
	1010.4	87.1			6	12	13	_	1.1469			0.00	88	86	
2000	1010.6	82.9			8	17	.9		1.1564		811		86	87	
2100	1010.6	81.2	26	202	4	10			1.1600			0.00	82	811	
2200	1011.0	80.0	26	2BE	4	7	-		1.3632		-	0.00	81	79	
2300	1011.1	28.7			4	. 6			1.4664	_		0.00	811	77	
2400	1011.2	79.2	28	223	5	11	10	29.86	1.1851	29.845	911	0.00	8.2	77	
Min	1010.4	22.6	21		1	3	6	29.84	1.1323	29.820	61	0.00	23	27	
Ĥve	1012.3	83.0	25	213	5	9	14	29.89	1.1582	29.876	78	0.00	84	87	
Max	1014.7	92.1	28		9	17	26	29.96	1.1836	29.947	94	0.00	93	91	
STD	1.5	6.1	2		2	4	5	. 04	.0139	. 1144	12	0.00	6	6	
Tot												$\mathfrak{g}_{+}\mathfrak{g}_{0}$			

## APG Surface Observations EST (Add one hour for EDT) SAMS Hourly Summarized Data Report

Elevation(ft): 16

Latitude : 39.50 Longitude : 26.07 Spesutie Island 11 JUL 1992

Time hhmm	Sea Lo Press mb	Air Temp F	Pt.		เมร	lind Spd	Dir	Altım -eter in Hg		Press.	RH *		Max Tmp F		
200 300 400 500 200 200 900 1100 1200 1300 1400 1500 1700 1800 1900 2000	1011.1 1010.8 1011.4 1011.7 1012.1 1012.1 1012.8 1013.6 1013.8 1013.9 1014.0 1013.6 1013.8 1013.7 1013.6 1013.8 1013.7 1013.8 1014.0 1013.8 1013.7	82.0 82.4 80.0 28.5 28.5 81.5 82.8 82.8 86.0 87.5 88.9 88.9 88.9 88.2 2 88.2 2 78.1	71 70 70 70 71 72 73 74 73 73 73 73 71 71 68 68	275 269 274 263 259 283 290 295 288 309 244 308 298 249 249 239	7879744677786657644333	12 18 13 18 16 7 11 14 13 15 12 11 10 8 7 5	10 12 11 12 13 14 13 14 13 14 21 18 20 12 18	29.86 29.85 29.87 29.88 29.91 29.93 29.94 29.94 29.93 29.93 29.93 29.94 29.94 29.94 29.94 29.94 29.95	1.1596 1.1596 1.1626 1.1652 1.1689 1.1718 1.1695 1.1657 1.1666 1.1545 1.1515 1.1595 1.1596 1.1488 1.1506 1.1488 1.1504 1.1504 1.1504 1.1504 1.1504	29.842 29.832 29.849 29.858 29.870 29.910 29.916 29.916 29.925 29.925 29.917 29.917 29.917 29.917 29.917 29.917 29.917 29.939 29.939 29.939	69 72 78 81 79 70 61 61 62 65 65 55 62	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	83 88 89 79 89 88 89 89 89 88 89 88 88 88 88 88 88	81 81 77 77 82 83 83 84 87 88 88 88 87 78	
2300 2400 Min	1015.5 1015.5 1010.8	77.6 77.4 77.3	20 72 68	286 332	2 1	3	27 24 7	29.99 29.99 29.85	1.1252 1.1252 1.1488	29.970 29.970 29.832	78 82 56	0.00	78 78 78 84	77 76 76 82	
Ave Max. STD	1013.4 1015.5 1.4	82.9 88.9 4.1		286	5 9 2	11 18 4			1.1610 1.1252 .0090		82	0.00	89 4	88 4	

# APG Surface Observations EST 1Add one hour for EDT) SAMS Hourly Summarized Data Report

Elevation(ft): 16
Latitude : 39.50 12 JUL 1992 Spesutie Island
Longitude : 76.07

Pk STO

							STO									MBG
	Sea Lu	Air	Dы	Ave	ΑU	lilnd	lilnd	A)1	t. 3 m	Dens-	Sta.		Pre-	Max	Min	Tmp
Time		Temp	Pt.	MD	ผร	Spd	Dir	-61	ter	i t. 1	Press	PH			Tmp	
թթաա	mb	F	F	deg	kt.	kt.	deg	in	Нg	kg/m3	in Hg	*			F	
									_	_	_					
	1015.6	76.4			2	3	19	29	. 99	1.1773	29.925	82	0.00	78	<b>7</b> 5	
	1015.5	73.3			1	3					29.972		0.00	25	72	
	1015.7	73.9			1	2					29.976	93	0.00	.25	72	
	1015.6	<b>75.3</b>			1	.3	22	29	.99	1.1797	29.975		0.00	:26	74	
	1015.9	24.3	72	2211	1	3	12	30.	00	1.1825	29.983		0.00	26	73	
	1015.9	77 . I)	74	46	2	4	13	3D.	លល	1.1759	29.983		0.00	78	25	
	1016.1	77.6	75	34	.3	6					29.988		0.00	79	77	
	1016.2	79.6	76	65	2	- 5					29.992		0.00	811	79	
	1016.0	80.1			2	4	19	30.	0.0	1.1685	29.985		0.00	83	29	
	1016.1	81.6			4	7	15	30.	01	1.1655	29.990		0.00	83	81	
	1016.2	81.7			4	7	13	30.	01	1.1654	29.992		0.00	82	81	
	1016.2	82.6			4	8	11	30.	nτ	1.1631	29.991		0.00	83	82	
	1015.4	83.2			6	10				1.1609			0.00	84	82	
1400	1014.7	84.6	77	212	7	11	11			1.1571			0.00	86	84	
1500	1014.1	85.6			7	10		29.	95	1.1544	29.931		0.00	87	85	
	1013.6	85.7			7	12	9	29.	93	1.1535	29.914		0.00	82	85	
1700	1012.8	85.5			6	1.0	9	29.	91	1.1527	29.891		0.00	86	85	
1800	1012.2	88.0			6	11	9	29.	89	1.1502	29.872		0.00	82	85	
1900	1011.6				5	11				1.1540			0.00	86	83	
5000	1011.4	81.9			7	10				1.1582			0.00	83	81	
	1011.5	RII.4			7	12	7	29.	82	1.1632	29.852		0.00	81	811	
	1011.4	79.9			6	10	10	29.	82	1.1643	29 851		0.00	80	811	
	1011.2	<b>29.3</b>			5	10	10	29.1	86	1.1651	29.843		0.00	BII	29	
2400	1010.4	<b>7</b> 9.7	ファ	219	9	18				1.1626			0.00	811	<b>7</b> 9	
								•		£ 1 € 11 € 1,1	. 2.7 . 13 2 17		0.00	ייסי	7.3	
	1810.4	23.3	71		1	2	4	29 : 1	34	1.1502	29 gan	25	0.80	<b>7</b> 5	72	
Hue	3014.2	80.4	26 3	234	4	8				1.1661			0.00	81	811	
Max	1016.2	86.0	79		9	18				1.1845			0.00	82		
					-			.,.,.	, ,	F - FD 40	60.006	9.5	0.00	9/	85	
STD	2.1	3.9	2		2	4	5	. 1	16	.0103	.861	6	0.00	4	4	
										. (, , , , , ,		C)		7	٦	
Tot													0 00			

*Times li	isted :	are real time - no corrections	are necessar	<u>/*</u>		
				TOTAL		
			VISIBILITY	SKY	TOTAL	KEY
DATE	TIME	SKY CONDITION		COVER	OPAOLE	
		( x 100 - Height in feet )	(Kiles)	1/10's		
06 July	0800	80 0120 <del>0</del>	YFH	10	10	GF= Ground Fog
200.9	0900	50€0 700€	5HF	10	10	F= Fog H= Haze
	1000	50 @ 200 @	5RW-HF	10	10	K= Smoke
	1100	500 200€	6H	10	10	BS Blowing Snow
	1200	5001400	6H.	10	10	HIL Blowing Sand
H	1300	500/200	6+	10	10	BD- Blowing Dist
	1400	4001200	10	8	8	IFm Ice Fog D= Dust
	1500	4001200	10	8	8	BY= Howing
	1600	3.400	10	6	6	Spray
07 July	0800	5002100	10	2	Z	*********
0/54.4	0900	500 2600	10	2	2	T- Thunderstorm
	1000	500 1000	10	己	Z	Tto Severe
1		500 1000 ZSOD	10	3	2	Thunderstorm
]	1100		10	3	7	R= Rain RW= Rainshower
<b>}</b> [	1200		77	3	3	L= Drizzle
	1300	500.1000	10	3	3	ZR- Freezing
	1400	400,400	-10	3	3	Rain
li .	1500	4009002500	10	4	3	ZL= Freezing
1071	1600	45013002500	10	3		Drizzle IP- Ice Pellets
CB July		7	10	4	3	(Sleet)
	0900	730 (D ZSO)	10	72	3	IPW=Ice Pellet
11	1000	13002500	10	3	Z	Shower
II	1100	13002500	10	之		S= Snow
	1200	1300 2500	70	-7+		SW= Snow Shower
11	1300	2000	10	3	3	SP= Snow Pellets SG= Snow Grains
11	1400	2200			10	IC= Ice Crystals
II.	1500	1300 ZIO (F)	10	10		4 Unil
- T	1600	1300 2100	- 1911	10		No user
O) July		14000000	7/37	10	6	Intensity of
	0900	14000000	- 4.77	10	6-	precip.: _ = Light
	1000	1200 200€	5H	10	-2	+ = Heavy
	1100	100 to 200 to	6H	10	-8-	No symbol =
	1200	230⊕	OH,	10	-8-	Moderate
	1300	230€	6H		8	****
	1400	230€		10	7	Sky Condition:
1 .	1500	2300	-6	10	9	O= Clear = less than
1	1600	4002300280 <del>0</del>	-	101	4	1/10
10 July	0830	250-D	6	3	2 3	O- Scattered =
	0900	2500	8		7	1/10-5/10 (
	1000	250D	3	3	7	On Broken =
	1100	250-D	70	7		
	1200	250-D	10	-; +	0	D= Overcast = 10/10 of
	1300	Z50-0		3	7	sky is
	1100	250-0	10	2	1,	covered.
	1500	250-D	10	2	-	
11	1600	.250-0		-	1	

NOTE: A layer of clouds is considered to be if for more of it is transparent; the sky condition symbol will be preceded by a (-) in such cases.

Visibilities of 7 or more miles are classified as unrestricted.

(-X) - sky partially obscured by surface based phenomena
(W2X) - sky completely obscured; vertical visibility is 200 feet

#### SAMS Hourly Summarized Data Report

Elevation(ft): 7

Latitude : 39.28 24 AUG 1992 Phillips Field

Longitude : 76.10

Time hhmm		Air Temp F	Pt		ЫS	lind Spd	Dir	Altim -eter in Hg	•	Press.	RH %	Pre- cip in	Max Tmp F		MBG Tmr Id× F
100	1028.0	64.2	63	1	2	3	15	30.36	1.2197	30.280	95	0.00	65	64	61
2111)	1027.9	61.9	61	5.5	1	2	26	30.35	1.2254	30.276	96	0.00	63	61	59
300	1027.9	61.3	60	21	1	3	16	30.35	1.2270	30.278	96	0.00	62	61	59
400	1027.9	60.9	60	6	1	2	13	30.35	1.2282	30.277	97	0.00	62	60	58
500	1027.9	59.6	59	332	1	2	20	30.35	1.2314	30.276	97	0.00	60	59	57
600	1028.2	58.6	58	21	n	2	5.5	30.36	1.2344	30.286	97	0.00	59	58	56
	1028.3	60.2		312	1	3			1.2304		-	0.00	63	58	59
	1028.3	67.9		111	1	2			1.2109		95	0.00	72	63	711
	1028.4	73.6		242	2	6			1.1971		88	0.00	74	72	<b>7</b> 5
	1028.4	75.3			3	9			1.1931		-	0.00	77	74	<b>7</b> 5
	1028.1	77.3	_		3	8			1.1881		81	0.00	28	<b>7</b> 6	76
	1027.7	78.2			4	10			1.1856			0.00	79	77	76
	1027.2	<i>7</i> 9.3			5	10			1.1828			0.00	80	79	77
	1026.6	80.3			5	11			1.1798			0.00	81	29	78
	1025.9	81.2			6	12			1.1773		68	0.00	82	81	78
	1025.7	81.6			6	10			1.1774			0.00	8.5	81	25
	1025.5	81.5			6	10	-		1.1797		-	0.00	8.2	81	72
	1025.3	80.1		226	4	7			1.1821			0.00	81	79	71
	1025.3	75.5			0	2			1.1913			0.00	79	72	67
	1025.3	711.2			1	2			1.2032			0.00	72	68	64
	1025.5	67.1		314	1	3			1.2104			0.00	68	66	6.5
	1025.4	65.7			1	2			1.2137		_	0.00	66	65	61
	1025.2	64.3			Ŋ	1			1.2167			0.00	65	64	61
2400	1025.1	64.1	62		Û	2	13	30.27	1.2169	30.196	9:3	1).131)	64	64	61
Min	1025.1	58.6			0	1			1.1773			0.00	59	58	56
Ave	1026.9	<b>70.4</b>		223	2	5		-	1.2043			0.00	2.5	69	67
Max	1028.4	81.6	71		6	12	38	30.37	1.2344	30.294	97	0.00	82	81	78
STD	1.3	8.3	5		2	4	8	. 04	.0199	. 038	17	0.00	8	8	8
Tot												u . uo			

#### SAMS Hourly Summarized Data Report

70 Elevation(ft):

Latitude : 39.28 Longitude : 76.10 25 AUG 1992 Phillips Field

						Ðν	STD								UBG
	C	04-	n.,	0	0	-		Altim	Dens-	S+ =		Pre-	May	Min	
Time	Sea Lo Press	Temp						-eter		Press.	RH		Tmp		
րրատ լյած		remp F		deq		-		in Hg	kg/m3	in Hg	**	in	F	F	F
משרורו	шÞ	r	r	oeg	K L	K L	ueg	in ng	Kg/ Inci	in ng	•	1,,	•	•	•
100	1024.9	63.5	62		0	2	11	30.27	1.2181	30.190	94	0.00	64	63	60
200	1024.4	62.9	62		Ð	2	9	30.25	1.2189	30.176	95	0.00	63	63	61)
300	1024.2	62.4	61	336	1	2	10	30.25	1.2198	30.169	96	0.00	63	62	60
400	1024.0	62.5	61	349	ŋ	2	30	30.24	1.2195	30.164	96	0.00	63	62	611
500	1023.9	62.3	61	278	1	2	- 20	30.24	1.2197	30.161	96	0.00	63	62	60
600	1024.4	62.5	61	348	1	2	16	30.25	1.2198	30.174	96	0.00	63	6.5	611
200	1024.5	64.2	63		O	2	26	30.25	1.2156	30.178	96	0.00	68	62	6:3
800	1024.5	72.3	70	257	2	6	23	30.25	1.1954	30.177	92	0.00	74	68	73
900	1024.5	25.1	72	258	3	6	17	30.26	1.1885	30.179	90	0.00	77	74	75
1000	1024.4	79.6	75	241	3	8	24	30.25	1.1775	30.176	86	0.00	8.5	77	79
1100	1024.2	81.5	76	249	3	7	25	30.24	1.1728	30.168	84	0.00	8:3	81	79
	1023.8	82.6		248	2	5	29	30.24	1.1699	30.159	8:3	0.00	84	8.5	81
	1023.6	85.9	78	235	3	6	36	30.23	1.1619	30.151	79	0.00	87	84	85
1400	1022.9	87.3	79	220	2	6	36	30.21	1.1582	30.132	75	0.00	88	86	84
	1022.4	86.1	79	195	4	10	22	30.19	1.1599	30.116	79	0.00	87	85	82
1600	1022.0	86.1	78	213	3	8	19		1.1597		28	0.00	87	85	82
1700	1021.6	85.8	78	189	4	7	14	30.17	1.1598	30.092	78	0.00	86	85	81
1800	1021.3	82.9	76	201	3	6	11	30.16	1.1666	30.084	79	0.00	85	82	77
1900	1021.0	80.4	75	257	2	6	13	30.15	1.1720	30.076	84	0.00	82	78	75
2000	1021.3	77.1	74	294	1	3	28	30.16	1.1799	30.083	89	0.00	78	75	73
2100	1021.5	75.6	73	243	1	3	32	30.17	1.1836	30.090	92	0.00	76	<b>7</b> 5	72
2200	1021.7	74.7	73	329	1	2	23	30.17	1.1860	30.097	94	0.00	75	74	72
2300	1021.6	73.4	72	287	2	3	9	30:17	1.1888	30.092	94	0.00	74	73	71
2400	1021.2	73.2	71	55	2	4	22	30.16	1.1892	30.083	94	0.00	74	72	71
															* 4:
Min	1021.0	62.3			O	2			1.1582		_	0.00	63	62	60
Ave	1023.1	<b>75</b> .0		238	2	5			1.1875			0.00	76	74	72
Max	1024.9	87.3	79		4	10	36	30.27	1.2198	30.190	96	0.00	88	86	85
STD	1.4	9 . 1	7		1	2	9	. 04	.0230	.041	7	0.00	9	9	9
Tat												0.00			

## APG Surface Observations EST [Add one hour for EDT] SAMS Hourly Summarized Data Report

Elevation(ft): 70 Latitude : 39.28 Longitude : 76.10

26 AUG 1992

Phillips Field

	Longi	Longitude : 76.10													
						Pk	STD								เทลเ
	Sea Lo	Air	Dω	Ave	Au	Wnd	Mnd	Altim	Dens-	Sta.		Pre-	Max	Min	Tmp
Time	Press	Temp	Pt,	ผอ	เมร	Spd	Dir	-eter	ity	Press.	RH	cip	Tmp	Tmp	Id×
hhmm	mb	F						in Hg		in Hg	*	in	F	F	F
				_			_								
100	1020.7	72.7	71	273	2	3	11	30.14	1.1897	30.068	94	0.00	73	72	20
200	1020.3	71.7	70	290	2	3	15	30.13	1.1918	30.054	95	0.00	73	71	69
300	1019.9	70.4	69	295	1	3			1.1945		95	0.00	72	70	68
41) ()	1019.7	69.4	68		1	2			1.1967		95	0.00	<b>7</b> 0	68	67
500	1020.1	68.4	67	253	1	2			1.1996		96	0.00	69	68	66
600	1020.5	67.8	67		ŋ	2	29	30.14	1.2017	30.061	-	0.00	68	68	65
200	1021.0	68.2	67	230	1	2			1.2011		-	0.00	69	68	67
800	1021.3	72.2	71		1	3			1.1915			0.00	25	69	73
900	1021.3	78.5	74	344	2	5			1.1766		-	0. ១០	81	<b>7</b> 5	<b>7</b> 8
1000	1021.3	83.2			3	8	_		1.1662			0.00	84	81	80
	1021.1	85.4		26	4	10			1.1613			0.00	86	84	8:3
	1020.7	86.7		17	5	11			1.1580		_	0.00	88	86	83
	1020.1	88.3			5	12			1.1543			0.00	89	88	84
	1019.5	89.1			5	11			1.1521			0.00	90	89	84
	1018.8	89.9			4	8			1.1495			0.00	90	89	85
	1018.2	90.4			3	7			1.1477			0.00	91	90	85
	1018:1	90.2			2	5			1.1481		58	0.00	91	91)	83
	1012.9	88 . 1			2	5			1.1522		_	0.00	90	85	81)
	1018.0	82.1			3	5			1.1647		79	0.00	85	80	26
	1018.4	77.8			1	4			1.1750		88	0.00	80	26	73
	1018.6	25.0			1	4			1.1817		9.2	0.00	26	25	72
	1018.6	74.0	_		1	2			1.1842			0.00	25	23	71
	1018.4	72.8	_	18	1	3			1.1869			0.00	74	72	69
2400	1018.3	71.7	71)	26	1	3	31	30.07	1.1894	29.995	94	0.00	72	71	69
Min	1017.9	67.8	67		0	2	4	30.06	1.1477	29.985	58	0.00	68	68	65
Aue	1019.6	28.5		333	2	5	22	30.11	1.1756	30.035	82	0.00	80	77	<b>7</b> 5
Max	1021.3	90.4	75		5	12	38	30.16	1.2017	30.086	97	0.00	91	9.0	85
STD	1.2	8.2	3		1	3	8	.04	.0190	. 036	15	0.00	8	8	7

0.00 Tot.

#### SAMS Hourly Summarized Data Report

Elevation(ft): 70

Latitude : 39.28 Longitude : 76.10 27 AUG 1992 Phillips Field

	_		_	_		-	STD								MBG
	Sea Lo								Dens-			Pre-			
Time	Press							-eter		Press.	RH		Tmp	-	
րրատ	mÞ	F	F	deg	kt	kt	deg	in Hg	kg/m3	in Hg	*	in	F	F	F
	1017.9	21.0		2	1	2			1.1908		94	0.00	71	71	68
	1017.4	70.3	69	329	1	2	16		1.1920		94	0.00	71	<b>7</b> 0	68
	1017.2	68 8		294	1	3	19		1.1954		95	0.00	70	68	66
	1016.8	68.7			1	3			1.1952		95	0.00	69	68	66
	1016.7	68.4		_	1	3			1.1957		95	0.00	69	68	66
	1016.9	68.0		268	1	2	9		1.1970		95	0.00	69	68	66
	1017.0	69.7			Ð	2	18		1.1929		95	0.00	72	68	68
	1017.2	75.6			1	4			1.1785		91	0.00	フゖ	72	25
	1017.2	81.2			1	3			1.1654		85	0.00	83	7B	81
	1017.0	85.1			2	5	30	30.03	1.1562	29.958	<b>7</b> 9	0.00	86	84	83
	1016.8	88.3	_	259	2	4			1.1493		72	0.00	89	87	86
	1016.3	89.6			3	7			1.1463		66	0.00	91	8.9	86
	1015.6	89.9		208	4	10	29	29.99	1.1449	29.917	66	0.00	90	89	86
	1014.7	89.5	_	20:3	5	.9	17	29.97	1.1450	29.889	64	0.00	90	89	85
	1013.8	89.9		184	4	8	18	29.94	1.1434	29.864	62	0.00	90	89	84
	1013.2	89.6	73	189	4	8	16	29.92	1.1440	29.845	58	0.00	91)	89	83
	1012.7	88.1	73	198	4	6	14	29.91	1.1467	29.830	60	0.00	89	87	80
	1012.8	85.4		214	3	6	8	29.91	1.1522	29.832	67	0.00	87	84	28
	1012.9	81.7	_		2	3	13	29.91	1.1602	29.836	<b>25</b>	0.00	84	80	25
	1013.2	78 . 6			2	5	24	29.92	1.1674	29.846	83	0.00	80	77	73
	1013.5	76.9			2	6	14	29.93	1.1712	29.855	88	0.00	78	76	72
	1013.1	25.9			2	4	11	29.92	1.1733	29.844	90	0.00	26	25	7.2
2300	1012.6	73.B	72	308	1	2	19	29.90	1.1776	29.829	93	0.00	25	73	21
2400	1012.4	72.4	71	25	1	2	25		1.1806		94	0.00	23	72	20
Min	1012.4	68.0	_		0	2	8	29.90	1.1434	29.821	58	0.00	69	68	66
Ave	1015.2	79.0	72	217	2	5			1.1692		81	0.00	80	28	25
Max	1017.9	89.9	28		5	10			1.1970			0.00	91	89	86
STD	2.0	8.3	4		1	2	9	. 06	. 0200	. 059	14	0.00	8	8	7
Tot.												0.00			

#### SAMS Hourly Summarized Data Report

Elevation(ft):

Latitude : 39.28 Longitude : 26.10 Phillips Field 28 AUG 1992

															WBG
	Air	Dia	Ave	Αv	lilnd	Mnd	A) t.:	3 m	Dens-	Sta.		Pre-	Max	Min	
											₽H	cip	Tmp	Tmp	Ιď×
ա ար	F	F	deg	kt.	kt	ged	in )	Нg	kg/m3	in Hg	*	1 n	F	F	F
0 1011 0	71 4	70				10		00	4 4000						
															69
		-		-											<b>7</b> 13
		-	229	_											71)
			4 40 .00												フリ
				_									_		69
				_										-	68
				_	-										70
				-											73
															76
				-											79
				-	_										81
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				_									_		
											-				
			ر. د ي	,	12	3	29.0	ניס	1.1004	25.725	80	0.00	6.9	68	
1000.9	68.9	64		ß	2	8	29.5	6	1.1431	29.484	61	0.00	69	68	68
	76 . D	70	205	7	14	14	29.7	26	1.1676	29.688	84				72
1011.9	85.9	フフ		14	28						95	. 21	87	85	81
3 5	6.0	2		4					0155	4.00					
3.3	0.19	.5		-4	9	4	. 1	Ü	. 0155	. 103	11	.04	6	6	5
												.22			
	Sea Love Press mb  0 1011.9 0 1011.4 0 1011.3 0 1011.1 0 1011.0 0 1011.0 0 1011.0 0 1010.7 0 1010.1 0 1009.3 0 1008.4 0 1007.3 0 1008.4 0 1007.3 0 1004.5 0 1002.7 0 1004.5 0 1002.7 0 1006.1 0 1008.1 0 1009.1 1000.9 1007.1 0 1008.1 0 1009.1	Press Temp mb F  0 1011.9 71.4 71.9 0 1011.3 72.0 1011.1 72.1 0 1011.0 71.4 0 1011.0 71.4 0 1011.0 72.3 0 1010.8 74.6 0 1010.7 77.3 0 1010.1 80.5 0 1009.3 83.3 0 1008.4 85.1 0 1007.3 85.3 0 1008.4 85.1 0 1007.3 85.3 0 1004.5 83.7 0 1002.7 84.4 0 1001.3 81.7 0 1000.9 76.2 0 1000.9 76.9 0 1000.9 76.0 9 76.0 1000.9 76.0 9 76.0 1000.9 76.0 9 76.0 1000.9 76.0 9 76.0 1001.9 85.9 1000.9 76.0 9 76.0 1001.9 85.9	Press Temp Pt mb F F F F T T T T T T T T T T T T T T T	Remote Press         Temp Pt MD         MD         F         F         Geg           0         1011.9         71.4         70         24           0         1011.4         71.9         70         110           0         1011.3         72.0         70         229           0         1011.0         72.1         70           0         1011.0         71.4         70         189           0         1011.0         72.3         70         154           0         1011.0         72.3         70         154           0         1010.1         72.3         70         154           0         1010.2         72.3         74         188           0         1010.1         80.5         76         173           0         1000.1         80.5         76         173           0         1009.3         83.3         72         174           0         1007.3         85.9         72         185           0         1007.3         85.9         72         185           0         1004.5         83.7         70         174           0	Temp Pt MD MS m mb F F deg kt  10 1011.9 71.4 70 24 1 10 1011.4 71.9 70 110 1 10 1011.3 72.0 70 229 1 10 1011.0 71.4 70 189 1 10 1011.2 70.8 69 118 1 10 1011.0 72.3 70 154 3 10 1010.8 74.6 72 192 4 10 1010.7 77.3 74 188 6 1010.1 80.5 76 173 7 10 1009.3 83.3 77 174 8 10 1008.4 85.1 74 195 10 1007.3 85.9 72 185 10 1007.3 85.9 72 185 10 1007.3 85.9 72 185 10 1007.3 85.9 72 185 10 1007.3 85.9 72 185 10 1007.3 85.9 72 185 10 1007.3 85.9 72 185 10 1007.3 85.9 72 185 10 1007.3 85.9 72 185 10 1007.3 85.9 72 185 10 1007.3 85.9 72 185 11 10 1004.5 83.7 70 174 11 10 1004.5 83.7 70 174 11 10 1004.5 83.7 70 174 11 10 1004.5 83.7 70 177 10 1000.9 85.3 70 174 11 10 1000.9 76.2 73 206 13 10 1002.6 73.2 70 246 14 10 1006.1 70.3 66 266 8 10 1007.1 70.3 66 266 8 10 1007.1 70.3 66 256 8 10 1008.1 69.9 64 273 6	Sea Lo         Air         DM         Aoe         Ao         Mnd           Rem         Press         Temp         Pt         MD         MS         Spd           m         mb         F         F         deg         kt         kt           0         1011.9         71.4         70         24         1         2           0         1011.3         72.0         70         229         1         3           0         1011.1         72.1         70         0         3           0         1011.0         71.4         70         189         1         4           0         1011.0         71.4         70         189         1         4           0         1011.0         71.4         70         189         1         4           0         1011.0         72.3         70         154         3         6           0         1011.0         72.3         70         154         3         6           0         1010.0         72.3         74         188         6         12           0         1000.1         80.5         72         185         10	Temp Pt MD MS Spd Dir F F deg kt kt deg M 1011.9 71.4 70 24 1 2 19 0 1011.4 71.9 70 110 1 3 22 0 1011.3 72.0 70 229 1 3 23 0 1011.1 72.1 70 0 3 11 0 1011.0 71.4 70 189 1 4 12 0 1011.0 72.3 70 154 3 6 16 0 1011.0 72.3 70 154 3 6 16 0 1010.7 72.3 74 188 6 12 14 0 1010.7 72.3 74 188 6 12 14 0 1010.7 72.3 74 188 6 12 14 0 1010.7 72.3 74 188 6 12 14 0 1010.7 72.3 74 188 6 12 14 0 1010.7 72.3 74 188 6 12 14 0 1010.1 80.5 76 173 7 12 15 0 1009.3 83.3 77 174 8 17 16 0 1009.3 83.3 77 174 8 17 16 0 1009.3 85.9 72 185 10 22 15 0 1007.3 85.9 72 185 10 22 15 0 1007.3 85.9 72 185 10 22 15 0 1004.5 83.7 70 174 11 23 13 0 1004.5 83.7 70 174 11 23 13 0 1004.5 83.7 70 174 11 23 13 0 1004.5 83.7 70 174 11 24 12 0 1001.3 81.7 73 156 11 24 12 0 1000.9 76.2 73 206 13 28 14 0 1000.9 76.2 73 206 13 28 14 0 1004.7 71.6 67 261 11 18 9 1000.1 70.3 66 266 8 18 8 10 1007.1 70.3 66 266 8 18 8 10 1007.1 70.3 66 266 8 18 8 10 1007.1 70.3 66 266 8 18 8 10 1007.1 70.3 66 266 8 18 8 10 1009.1 68.9 64 273 6 12 9 1000.9 68.9 64 273 6 12 9 1000.9 68.9 64 273 6 12 9 1000.9 76.0 70 205 7 14 14 1011.9 85.9 77 14 28 23	Sea Lo         Air         Dw         Aoe         Ao lind         lind         Alt         Alt	Sea Lo Air Du Aoe Ao Und Und Altım Press Temp Pt MD MS Spd Dir -eter MD MS Spd Dir NG MS Spd Dir -eter MD MS Spd Dir NG MS Spd Dir -eter MD MS Spd Dir NG MS	Sea Lo Press   Press					

## SAMS Hourly Summarized Data Report

Elevation(ft): 70

Latitude : 39.28 29 AUG 1992 Phillips Field

Longitude : 76.10

	C I	٥.		•	_	Pk	STD			_						MBG
Τ	Sea Lo	Hir	DM	HUE	HO	lind	lilnd	Alt.i	m	Dens-	Sta.			Max	Min	Tmp
Time		Temp	Pt.	. 600	505	Spd	Dir	-et.e	r	ity	Press.	RH	cip	Tmp	Tmp	Id×
ששתת	mÞ	F	F	deg	kt	kt	deg	in H	g	kg/m3	in Hg	*	ın	F	F	F
	1009.7	67.5			6	12	11	29.8	2	1.1909	29.743	81	0.00	68	67	
	10,10.2	65.8			5	11					29.757		0.00	67	64	
	1010.8	63.2			3	7					29.776		0.00	64	62	
	1011.5	62.4	57	256	4	. 7					29.795		0.00	63	61	
	1012.4	59.9			3	5					29.822		0.00	61	59	
	1013.3	59.1	56	258	3	4					29.849		0.00	60	59	
	1014.0	61.2	57	273	4	10					29.869	86	0.00	63	59	
	1014.8	64.9	58	278	7	13					29.893	78	0.00	67	63	
	1015.1	68.1			8	16					29.902	67	0.00	69	67	
	1015.2	69.6	56	286	8	17					29.904	63	0.00	20	69	
	1015.1	70.D			9	19					29.901	61)	0.00	71	69	
	1015.1	71.1			9	19					29.900	57	0.00	73	71)	-
	1015.1	72.7			9	22					29.900	54	0.00	74	72	
	1015.3	71.9	53	297	9	21					29.905	52	0.00	7:3	71	
	1015.4	71.B			10	21					29.909		0.00	73	71	
	1015.8	71.2			8	20					29.922		0.00	72	20	
1700	1016.3	69.7			8	18					29.937		0.00	72	69	
	1016.9	69.0			5	12					29.954		0.00	20	68	
	1017.6	65.1			2	5					29.973		0.00	68	63	
	1018.1	60.3			2	5					29.990		0.00	63	59	
	1018.7	58.8			2	3	6	30.08	3 1	.2234	30.007		0.00	59	57	
	1019.3	55.9			1	2					30.023		0.00	52	55	
	1019.5	54.3			1	2					30.030		0.00	55	53	
2400	1019.6	53.0	51	265	1	3	22	30.11	1	. 2385	30.032		0.00	54	52	
Min	1009.7	53.0	51		1	2	6	29.82	, 1	1867	29.743	5.1	0.00	54	52	
Ave	1015.2	64.9	55	287	5	11	13	29.98	1	2049	29.904		0.00	66	64	
Max	1019.6	72.7			10	22					30.032		0.00	74	72	
STD	2.8	6.0	3		3	7	5	. 08	}	.0154	. 083	15	0.00	6	6	
Tot.													0.00			

#### SAMS Hourly Summarized Data Report

20 Elevation(ft):

30 AUG 1992 Phillips Field

Latitude : 39.28 Longitude : 76.10

							STD								MBG
	Sea Lu								Dens-	St.a.		Pre-			-
Time		Temp								Press.	ВH	-		Tmp	
ppmm	mb	F	F	deg	kt	kt.	deg	in Hg	kg/m3	in Hg	*	in	F	F	F
	1019.7	52. <i>7</i>			2	3			1.2395			0.00	53	52	
	1019.9	52.4		283	2	3	8		1.2404	_		0.00	53	52	
	1020.3	51.7	50	237	1	2			1.2429		94	0.00	52	51	
400	1020.1	50.7		245	2	3	12	30.13	1.2451	30.049	95	0.00	51	50	
500	1020.1	51.1	50	272	2	3	· 14	30.13	1.2442	30.049	94	0.00	52	50	
600	1020.5	50.7	49	270	2	3	12	30.14	1.2458	30.060	94	0.00	52	50	
200	1021.1	55.0	53	269	2	4	7	30.15	1.2353	30.076	92	0.00	58	52	
800	1021.1	61.3	57	265	4	9	7	30.15	1.2195	30.077	85	0.00	64	58	
900	1021.0	66.1	58	258	7	10	9	30.15	1.2083	30.075	76	0.00	69	64	
1000	1021.1	69.9	58	233	7	12	13	30.15	1.1995	30.022	67	0.00	71	68	
1100	1020.8	72.4	57	243	9	14	11	30.14	1.1936	30.068	59	0.00	73	71	
1200	1020.2	74.1	59	224	9	16	14	30.13	1.1888	30.049	59	0.00	25	73	
1:300	1019.3	75.1	60	220	11	20	12	30.10	1.1855	30.025	59	0.00	76	74	
1400	1018.2	75.7	61	212	12	22	12	30.07	1.1826	29.992	59	0.00	76	<b>7</b> 5	
1500	1017.4	76.2	61	214	13	20	11	30.04	1.1807	29.968	59	0.00	77	76	
1600	1016.8	76.7	61	210	12	22	11	30.03	1.1788	29.951	59	0.00	77	76	
1700	1016.7	76.5	61	55.5	12	19	11	30.02	1.1790	29.948	59	0.00	77	26	
1800	1016.7	<b>75</b> . 1,	62	215	10	16	9	30.02	1.1820	29.948	65	0.00	76	74	
1900	1016.4	72.4	64	216	7	14	В	30.02	1.1873	29.940	25	0.00	74	71	
2000	1016.2	20.7	64	223	6	10	7	30.01	1.1907	29.934	78	0.00	72	<b>7</b> 0	
2100	1016.3	20.3	64	216	4	10	7	30.01	1.1918	29.937	80	0.00	72	69	
2200	1016.3	70.9	66	231	6	12	8	30.01	1.1900	29.936	8:3	0.00	73	69	
2300	1015.9	73.0	66	236	8	14	9	30.00	1.1847	29.925	78	0.00	73	73	
2400	1015.8	72.8	65	243	8	14	8	30.00	1.1854	29.922	76	0.00	<b>7</b> 3	72	
Min	1015.8	50.7			1	2	7	30.00	1.1788	29.922	59	0.00	51	50	
Aus	1018.7	66.4	58	229	7	12	11	30.08	1.2051	30.006	76	0.00	67	65	
Max	1021.1	76.7	66		13	22	21	30.15	1.2458	30.077	95	0.00	77	76	
STD	2.0	10.0	6		4	7	3	. 06	. 0258	. 059	14	0.00	10	10	
Tot												0.00			

000 000 000 000 000 000 000 000	SKY CONDITION  (x 100 = Height in feet)  -X802900  -X802900  -X1002900  2002700  270-0  270-0  2500	VISIBILITY (Miles)  2FH  2FH  3FH  5H  7  7  8  2FH  2FH  3H  3H  3H  4H  5H	TOTAL SKY COVER 1/10's 8 5 4 4 7 7 4 2 2 4 3 2 7 10 8 7	TOTAL OPAQUE  7 4 5 2 1 1 2 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	GF= Ground Fog F= Fog H= Haze K= Smoke BS= Blowing Sm BB= Blowing Dus IF= Ice Fog D= Dust BY= Blowing Spray T= Thunderstor T+= Severe Thunderstor R= Rain RW= Rainshower L= Drizzle ZR= Freezing Rain
\$00 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$00	(x100 = Height in feet) -X8029000 -X8029000 -X8029000 -X10029000 -X10029000 -X10-00 -X	(Miles) 2FH 2FH 3FH 4H 5H 7 7 8 2FH 2FH 3H	1/10's 8 5 4 7 4 7 2 2 3 2	OPAQUE 7 4 5 3 2 1 1 4 2 2	GF= Ground Fog F= Fog H= Haze K= Smoke BS= Blowing Sno BN= Blowing Dus IF= Ice Fog D= Dust BY= Blowing Spray T= Thunderstor T+= Severe Thunderstor R= Rain RW= Rainshower L= Drizzle ZR= Freezing
	-X802900 -X802900 -X1002900 1202900 2002700 270-0 270-0 270-0 2500	2FH 2FH 3FH 4H 5H 5H 7 7 8 2FH 2FH 3H	85544742263327	7 4 4 5 3 2 2 1 1 4 2 2 2	GF= Ground Fog F= Fog H= Haze K= Smoke BS= Blowing Smo BN= Blowing Sar BD= Blowing Dus IF= Ice Fog D= Dust BY= Blowing Spray ************************************
	-X80 Z90 Φ -X100 Z90 Φ 12 Φ Z90 Φ 270 - Φ 270 - Φ 270 - Φ 250 Φ	2FH 3FH 4H 5H 5H 7 7 8 2FH 2FH 3H	5544742243327	74537211422	F= Fog H= Haze K= Smoke BS= Blowing Sno BN= Blowing Dus IF= Ice Fog D= Dust BY= Blowing Spray T= Thunderstor T+= Severe Thunderstor R= Rain RW= Rainshower L= Drizzle ZR= Freezing
	-X/00 Z900 120 Z900 200 Z700 Z70-0 Z70-0 Z70-0 Z500 Z500 Z500 Z500 Z500 Z500 Z500 Z500 Z500 Z500 Z500 Z500 Z500 Z500 Z500 Z500 Z500 Z500	3FH 4H 5H 5H 7 7 8 2FH 2FH 3H	544742263327	74537211422	H= Haze K= Smoke BS= Blowing Sno BB= Blowing Dus IF= Ice Fog D= Dust BY= Blowing Spray T= Thunderstor T+= Severe Thunderstor R= Rain RW= Rainshower L= Drizzle ZR= Freezing
000 000 000 000 000 000 000 000 000 00	12 P 290 D 300 270 D 270 - P 270 - P 270 - D 250 P 250 P	7 5H 7 7 8 2FH 2FH 3H	44742263327	5322114222	K= Smoke BS= Blowing Smo BB= Blowing Dus IF= Ice Fog D= Dust BY= Blowing Spray ************************************
200 200 200 200 200 200 200 200 200 200	300 2700 270-10 270-0 270-0 250 10 250 0 250 0	5H 5H 7 7 8 2FH 2FH 3H	4742263327	322114222	BS= Blowing Sm BB= Blowing Sar BD= Blowing Dus IF= Ice Fog D= Dust BY= Blowing Spray ************************************
600 600 600 600 600 600 600 600 600 600	270-W 270-D 270-D 270-D 250D 250D 250D 250D 250D 250D 250D 250D 250D 250D 250D 250D	5H 7 7 8 2FH 2FH 3H	4742263327	322114222	BN= Mowing Ser BD= Blowing Dus IF= Ice Fog D= Dust BY= Mlowing Spray ************************************
	270-0 270-0 270-0 2500 2500 2500 2500 2500 2500 2500 2500 2500 2500 2500 2500 2500 2500	7 7 8 2FH 2FH 3H	20000	2211422	BD= Blowing Dust IF= Ice Fog D= Dust BY= Blowing Spray ************************************
	720-0 270-0 2500 2500 2500 2500 2500 2500 2500 2500 2500 16002501	7 7 8 2FH 2FH 3H	20000	211422	D= Dust BY= Blowing Spray T= Thunderstor T= Severe Thunderstor R= Rain RW= Rainshower L= Drizzle ZR= Freezing
000 000 000 000 000 000 000 000 000	270-0 250 D 250 D 250 D 250 D 250 D 250 D 250 D 160 D 250 D	2FH 2FH 3H	20000	2 2	BY= Blowing Spray T= Thunderstor T= Severe Thunderstor R= Rain RW= Rainshower L= Drizzle ZR= Freezing
800 800 800 800 800 800 800 800 800	250 (D) 250 (D) 250 (D) 250 (D) 250 (D) 250 (D) 160 (D) 250 (D)	2FH 2FH 3H	633327	2 2	Spray T= Thunderstor T= Severe Thunderstor R= Rain RW= Rainshower L= Drizzle ZR= Freezing
000 000 000 000 000 000 000 000	250 (D) 250 (D) 250 (D) 250 (D) 250 (D) 250 (D) 160 (D) 250 (D)	2FH 2FH 3H	633327	2 2	T= Thunderstor T= Severe Thunderstor R= Rain RW= Rainshower L= Drizzle ZR= Freezing
000 000 000 000 000 000 000 000	250D 250D 250D 250D 250D 250D 160D250D	ZFH 3H	327	2 2	T= Thunderstor T= Severe Thunderstor R= Rain RW= Rainshower L= Drizzle ZR= Freezing
000 000 000 000 000 000 000 000	2500 2500 2500 2500 2500 2500 2500 16002501)	3H	327	2	T+= Severe Thunderstor R= Rain RW= Rainshower L= Drizzle ZR= Freezing
000 000 000 000 000 000	250D 250D 250D 250D 250D 160D250D		2	Z	R= Rain RW= Rainshower L= Drizzle ZR= Freezing
000 000 000 000 000 000	250 (D) 250 (D) 250 (D) 160 (D) 250 (D)	3H 3H 4H 4H 5H	7		RW= Rainshower L= Drizzle ZR= Freezing
000 .000 .000 .000	ZSOD ZSOD ZSOD 1600ZSOD	3.4 4.4 4.4 5.4	10 8	9	L= Drizzle ZR= Freezing
.00 .00 .00 .00	ZSOD ZSOD NGODZSOD	9H 9H 5H	8	7	ZR= Freezing
000	250 (D 160 O 250 (D	4H 5H	7	-{	
000	16002501D	5 H		<u> </u>	
000	76000000	$\Box SH$	1 - 1	-2-	ZL= Freezing
_		1 201		ــــــ	Drizzle
W		2.FH	6	<u> </u>	IP= Ice Pellets
	-X ZSOD	34	6	->	(Sleet)
$\frac{\infty}{\infty}$	1300 ZSOD	3/7	5	4	IPW=Ice Pellet
	1300 2500	5H	332	2	Shower S= Snow
00	13007500	54,	3	2	SW= Snow Shower
$\infty$	2500	5H	2	Z	SP= Snow Pellet
$\infty$	ZS00	5H	4		SG= Snow Grains
00	ZSOO	5H	_5	4	IC= Ice Crystal
00	250 M	5H	_5	4	A= Hail
$\infty$	<u>-X</u>	1/2FH	4	4	*****
$\infty$	-X	ZFH	3	~	Intensity of precip.:
$\infty$		ZFH	3	3	- = Light
$\infty$		ZFH	.3	3	+ = Heavy
$\infty$	-X	ZHF	3	3	No symbol =
$\infty$	-X	3 <i>H</i>		7	Moderate
$\infty$	-X 210xD	3 <i>H</i>		4	****
		.3H		6	Sky Condition:
00		34			O= Clear = less than
00	~X			4	1/10
$\infty$	-X 1100		5	5	() = Scattered
		34		6	1/10-5/10
		54	Q	Ó	() = Broken =
00	3000 110A	54		10	6/10-9/10
		7		10	Overcast =
		10	8	8	10/10 of
			1/2	7	sky is
∞ .	3500 1700		2	3	covered.
		00 -X	00 -X	2FH 3 0 -X	2FH 3 3 0 -X

MOTE:

A layer of clouds is considered to be thin if \( \frac{1}{2} \) or more of it is transparent; the sky condition symbol will be preceded by a (-) in such cases.

Visibilities of 7 or more miles are classified as unrestricted.

(- I) = sky pertially obscured by surface based phenomena

(W2 I - sky completely obscured; vertical visibility is 200 feet

#### SAMS Hourly Summarized Data Report

Elevation(ft): 7

70

Latitude : 39.28

31 AUG 1992

Phillips Field

Longitude : 76.10

	<u>a</u> a				_		STD		-			_			មិន មិន
m	Sea Lu							Altim			211	Pre-			
Time	Press	Temp						-eter		Press.	RH	_	Tmp		
hhmm	wÞ	F	F	deg	кt	κt	deg	in Hg	k <b>g</b> ∕m3	in Hg	*	in	F	F	F
100	1015.6	<b>7</b> 2 1	65	247	7	11	8	29.99	1.1862	29.915	77	0.00	<b>7</b> 2	21	
200	1015.2	20.2	64	255	6	11	7	29.98	1.1895	29.905	<i>7</i> 9	0.00	72	69	
300	1015.1	68.4	63	255	4	6	7	29.98	1.1949	29.901	83	0.00	69	62	
400	1015.2	66.8	63	270	3	5	7	29.98	1.1986	29.903	87	0.00	62	66	
500	1015.4	65.9	63	272	3	5	8	29.99	1.2008	29.909	89	0.00	66	66	
600	1015.9	66.1	63	285	3	5	7	30.00	1.2009	29.924	90	0.00	66	66	
200	1016.5	66.7	64	257	3	5	11	30.02	1.2001	29.941	90	0.00	68	66	
800	1016.9	69.1	65	268	3	5	9	30.03	1.1947	29.953	88	0.00	7 n	68	
900	1017.2	<b>7</b> 3.2	62	272	5	9	12	30.04	1.1855	29.963	8.5	0.00	26	フロ	
1000	1012.2	<b>2</b> 8.3			6	12	22	30.04	1.1243	29.962	68	0.00	<b>7</b> 9	77	
	1017.2	28.9			7	15			1.1737		61	0.00	80	28	79
1200	1016.9	<b>2</b> 9.2	63	286	8	18	17	30.03	1.1720	29.954	57	0.00	80	<b>7</b> 9	28
	1016.6	81.4			2	15			1.1684		50	0.00	82	811	29
	1016.4	82.1		302	8	17			1.1628		40	0.00	82	82	79
	1016.3	81.3			8	16			1.1696		39		82	81	28
1600	1016.5			282	9	15	14	30.02	1.1722	29.942	40		81	80	72
1200	1016.2	<b>7</b> 9 . 6	54	295	7	15	17	30.03	1.1239	29.949	41	0.00	80	29	26
1800	1017.0	78.2			4	11	12	30.03	1.1220	29.958	44	0.00	<b>7</b> 9	77	74
1900	1017.2	72.3	57	284	2	3	7	30.04	1.1898	29.964	60	0.00	26	68	68
2000	1017.9	66.4	59	272	1	3	17	30.06	1.2036	29.982	28	0.00	6ម	65	63
2100	1018.5	66.0	59	311	2	4	23	30.08	1.2053	30.001	28	0.00	62	65	61
2200	1018.6	64.0	58	319	2	5	16	30.08	1.2103	30.004	80	0.00	66	63	59
2300	1019.0	65.2	55	341	2	8	20	30.09	1.2072	30.015	69	0.00	62	65	59
2400	1019.2	66.4	54	356	3	8	21	30.10	1.2062	30.021	64	0.00	67	65	59
Man	1015.1	64.0			1	3	_		1.1678		39	0.00	66	63	<b>5</b> 9
Ave	1016.8	72.5	60	286	5	9			1.1885		68	0.00	74	21	71
Max	1019.2	82.1	67		9	18	23	30.10	1.2103	30.021	91)	0.00	8.5	82	79
STD	1 . 2	6.4	5		2	5	6	. 03	.0144	. 034	18	0.00	6	7	8
Tot												0.00			

#### SAMS Hourly Summarized Data Report

Elevation(ft): 20

Latitude : 39.28 Longitude : 76.10

Phillips Field 1 SEP 1992

						Pk	STD								UBG
	Sea Lo	Air	Dω	Ave	ÃΦ	lilnd	lilnd	Altım	Dens-	Sta.		Pre-			
Time	Press	Temp	Pt	630	ผร	Spd	Dir	-eter	149	Press.	RH	cip	Tmp		
hhmm	mb	F	F	deg	kt	kt.	deg	in Hg	kg/m3	in Hg	*	1 n	F	F.	F
				_			_								
100	1019.5	64.2	54	343	3	6			1.2117		68	0.00	65	63	5H
200	1019.9	62.3	53	328	2	3	14	30.12	1.2165	30.042	72	0.00	63	61	52
300	1020.2	59.4	53	336	1	3	34		1.2238		80	0.00	61	56	55
400	1020.5	58.3	54	317	1	4	15		1.2267		85	0.00	6.0	56	53
500	1021.0	57.1	53	9	1	2			1.2301		82	0.00	58	56	52
600	1021.8	<b>5</b> 6.0	53	19	1	2			1.2337		911	0.00	<b>5</b> 2	56	52
200	1022.4	59.0	56		0	2	34		1.2268		89	0.00	63	56	52
800	1022.9	66.9	60	28	2	5	28		1.2082		77	0.00	69	63	65
900	1023.1	20.2	58	27	2	5	26		1.2001		64	0.00	72	69	69
1000	1023.1	<b>7</b> 3.7	57	351	2	7	50		1.1932		56	0.00	25	72	72
1100	1023.0	<b>2</b> 5.3	55	334	3	7	52		1.1905		49	0.00	26	74	25
1200	1022.5	26.9	53	211	3	8	43		1.1865		44	0.00	<b>7</b> 8	25	28
1300	1022.1	25.5	58	122	4	11	28		1.1887		51	0.00	77	74	26
1400	1021.6	26.1	52	242	4	10	42		1.1866		52	0.00	22	24	25
1500	1021.2	<b>7</b> 5.9	52	263	2	6	47		1.1866		52	0.00	28	24	24
1600	1020.8	<b>7</b> 7.6	58	219	5	11			1.1820		51	0.00	29	26	77
1200	1020.8	<b>26.4</b>		218	6	12			1.1849		52	0.00	28	<b>75</b>	24
1800	1020.9	<b>7</b> 4.9		223	5	10	8		1.1828		59	0.00	26	23	72
1900	1021.1	20.6		224	3	6	6		1.1925		20	0.00	73	68	62
2000	1021.5	66.3	$\epsilon n$	244	1	3	25		1.2028		82	0.00	68	65	63
2100	1021.9	62.7	60		1	2	18		1.2162		90	0.00	65	61	611
2200	1022.4	61.3	59	286	2	4	34		1.2206		92	0.00	62	61	58
2300	1022.6	59.5	58	308	1	2			1.2255		93	0.00	61	59	56
2400	1022.9	52.6	56	286	1	3	30	30.21	1.2308	30.130	95	0.00	58	52	55
														6: 41	50
Min	1019.5	56.0			Û	2	- 6		1.1820			0.00	57	56	52 64
Ave	1021.7	67.3		250	2	6			1.2068			0.00	69 29	66 26	28
Max	1023.1	<b>77.6</b>	60		6	12	52	30.21	1.2337	30.137	30	0.00	/3	/ D	70
CHED	2 2	5) ·J	٠,		17	3	14	. 03	.0128	. 031	12	0.00	8	8	9
STD	1.1	7.7	:3		2	.5	14	. 0.5	. 0.1.50	10.01	.,	5.00		•.,	•
ffr												0.00			
Tat															

#### SAMS Hourly Summarized Data Report

Elevation(ft): 20

Latitude : 39.28 2 SEP 1992 Phillips Field

Longitude : 26.10

						-	STD								សមថ
	Sea Lo								Dens-	Sta.		Pre-	Max	Min	$J_{\mu\nu}$
Time		Temp						-eter		Press.	RH	cip	Tmp	Tmp	Id×
հրատ	mb	F	F	deg	kt.	kt.	deg	in Нg	kg∕m3	in Hg	*	in	F	F	F
100	1023.2	52.6	E 0	200	4	_	22	20 00	1 0011	20 120	0.2	0 00	0.0	<b>-</b>	
	1023.2	56.5			1	5				30.139	93		60	56	54
	1023.3		55		1	2			1.2342		94		52	56	53
	1023.4	57.0	55 54	64	1	2			1.2328		94		58	5 F	53
	1023.4	<b>5</b> 5.9	54	4 1	1	-			1.2358		95		56	<b>5</b> 5	52
	1024.1	55.9 54.2	53	11 49	2	4 2			1.2360		92		52	55	52
	1024.1	59.3	52	63	3	8	19		1.2409		94		55	54	51
	1024.4	64.6	_	72	.s 2	12	19				92		64	54	56
	1025.0	65.8		86	8	13	_		$\frac{1.2155}{1.2133}$		85		66	64	6 U
	1025.1	62.6		88	2	10	11		1.2133		29 28	0.00 0.00	66	65	62
	1025.0	69.4		102	5	9	17		1.2031		78	-	68 20	66 68	64 68
	1024.4	20.6		102	5	В	13		1.2009		76	0.00 0.110	21	211	69
	1023.8	71.6		93	3	2			1.1976		78	0.00	74	20	20 20
	1023.2	74.2		84	3	6	19		1.1904		77	0.00	25	24	22
	1022.8	23.8	-	66	3	6	13		1.1908		29	0.00	24	73 23	71
	1022.2	74.3		73	2	4			1.1886		81	0.00	25	74	72
	1021.8	<b>75.0</b>		20	1	3			1.1865		81	0.00	25	25	72
	1021.6	23.8		84	2	3				30.0921	85	0.00	24	73	21
	1021.3	73.1		124	3	5			1.1902		85	0.00	24	23	69
	1021.7	21.6		104	3	4			1.1943		86	0.00	23	21	68
	1022.0	21.3		91	2	4			1.1954		88	0.00	21	21	68
	1022.0	20.8		151	2	4	-		1.1966		82	.03	22	69	67
	1021.5	69.1		158	3	6			1.2001		89	0.80	28	68	66
	1021.3	67.9			1	4			1.2026			0.00	68	68	65
				,											
Man	1021.3		53		1	2			1.1865	_	_	0.110	55	54	5.1
Ave	1023.1		62	87	3	8			1.2085		86	. 00	68	66	64
Max	1025.1	25.0	69		8	13	37	30.27	1.2409	30.195	95	. 01	25	25	22
STD	1.3	7.1	6		2	3	9	. 04	.0184	.037	7	. 0.0	7	2	8
Tot												. 01			

#### SAMS Hourly Summarized Data Report

Elevation(ft): 20

Latitude : 39.28 3 SEP 1992 Phillips Field

Longitude : 26.10

Time bbmm	Sea Lu Press mb		Pt	WD	ພຣ	lilnd Spd	Dir	Altim -eter in Hg	Dens- ity kg/m3	Press.	RH %	Pre- cip in	Max Tmp F		•
100	1020.6	68.4	66	197	2	5	12	30.14	1.2006	30.064	92	0.00	69	68	65
200	1020.4	69.8		234	6	12	11	30.13	1.1968	30.052	92	0.00	71	នង	67
	1020.0	20.1			5	12	11	30.12	1.1958	30.045	91	. 0.1	71	69	66
400	1019.7	68.7	66	187	2	4	13	30.11	1.1988	30.037	92	0.00	69	68	66
500	1019.2	69.4		185	3	6			1.1920		93	0.00	20	69	66
6110	1019.8	69.8	68	214	3	9	9	30.11	1.1959	30.038	93	0.00	21	69	62
200	1019.8	72.5	20	232	8	15	10	30.12	1.1894	30.041	91	0.00	23	71	69
800	1019.8	23.6	20	227	1.0	18	10	30.12	1.1869	30.041	90	0.00	74	23	20
940	1019.8	<b>24</b> .2	21	228	10	17	1.0	30.12	1.1853	30.040	89	0.00	74	74	71
1000	1019.6	25.6	22	219	11	12	11	30.11	1.1816	30.034	88	0.00	72	74	74
1100	1019.3	<b>22.0</b>	23	219	13	22	11	30.10	1.1280	30.025	87	0.00	78	77	25
1200	1019.0	72.6	23	221	13	2:3	10	30.09	1.1263	30.015	85	0.00	28	72	75
1300	1018.6	29.0	24	217	12	20			1.1226			<b>0</b> , $0$ $0$	80	78	72
1400	1018.1	22.6	23	216	10	19			1.1253		85	.16	29	<b>7</b> 5	25
1500	1017.3	26.3	23	217	B	12	13	30.04	1.1722	29.966	89	. 12	28	74	24
1600	1017.5	72.3	20	240	ß	21	13	30.05	1.1820	29.971	93	.52	24	21	21
1200	1012.5	21.8	211	243	6	11	ន	30.05	1.1883	29.971	94	. 0.1	72	21	21
1800	1017.8	23.0	71	237	4	6	9	30.06	1.1852	29.981	93	0.00	74	2.5	22
1900	1018.2	72.4	20	224	2	4	19	30.02	1.1826	29.991	94	0.00	23	21	$2\pi$
2000	1018.6	20.9	69	254	1	2	22	30.08	4.1918	30.004	94	0.00	22	211	68
2100	1019.0	69.6	68	4	1	2	2.0	30.09	1.1955	30.016	95	0.00	21	69	67
2200	1019.2	69.1	68	234	1	4	3.0	30.10	1.1920	30.022	96	000	20	69	62
2300	1019.4	69.7	69	224	2	3	14	30.10	1.1956	30.022	-	0.00	20	69	67
2400	1019.6	69.6	69	302	1	3	21	30.11	1.1961	30.034	92	0.00	211	69	62
Min	1012.3	68.4			1	2	_		1.1226		-	0.00	69	6੪	65
Ave	1019.1			225	6	11			1.1888		91	. u3	23	21	20
Max	1020.6	29.0	74		13	23	30	30.14	1.2006	30.064	97	.52	នា	78	77
STD	. 9	3.3	2		4	7	5	.03	. (1084	.028	4	. 11	3	3	4
Tot												.82			

# APG Surface Observations EST [Add one hour for EDT] SAMS Hourly Summarized Data Report

Elevation(ft): 7

Latitude : 39.28 4 SEP 1992 Phillips Field

Longitude : 26.10

Time hhmm	Sea Lo Press mb	Air Temp F	Pt		ຜຣ	lind Spd	Dir	Altim -eter in Hg	Dens- ity kg/m3	Sta. Press. in Hg	RH %	Pre- cip in	Max Tmp F		MBG Tmp Id× F
100	1019.2	68.1	62	230	2	4	19	30.11	1.2000	30.038	97	0.00	69	62	66
200	1019.6	62.6	62	250	1	3	29	30.11	1.2010	30.034	97	0.00	68	62	65
300	1019.6	67.2	66	264	1	3	34	30.11	1.2020	30.033	98	0.00	67	62	65
400	1019.6	67.0	66	316	1	3	41	30.11	1.2024	30.032	98	0.00	62	67	65
500	1019:8	66.5	66		1	2	25	30.12	1.2040	30.041	98	0.00	62	66	64
600	1020.5	66.4	66	190	1	2	12	30.14	1.2050	30.060	99	0.00	62	66	64
200	1021.3	66.8	88	43	1	2	29	30.16	1.2049	30.082	99	0.00	ខន	66	65
800	1021.9	69.9	69	181	1	2	42	30.18	1.1979	30.100	99	0.00	72	68	69
900	1022.4	23.0	22	32	2	5	35	30.19	1.1906	30.117	98	0.00	75	72	74
1000	1023.1	26.9	23	23	3	7	28	30.21	1.1826	30.137	89	0.00	79	25	77
1100	1023.4	29.8	23	43	3	8	25	30.22	1.1265	30.142	80	0.00	82	78	BI
	1023.4	82.5	74	26	2	6	37	30.22	1.1703	30.142	77	0.00	84	81	85
1300	1023.3	82.0	74	22	2	6	27	30.22	1.1715	30.144	76	0.00	84	8.1	82
	1023.0	83.2	74	118	2	5	33	30.21	1.1685	30.134	74	0.00	84	83	83
	1022.5	81.2	23	153	4	6	12	30.20	1.1724	30.120	77	0.00	82	87	29
	1022.2	83.1	24	160	1	4	36	30.19	1.1622	30.110	74	0.00	85	82	8.5
1200	1022.4	82.5	24	142	2	4	28	30.19	1.1693	30.115	26	0.00	85	81	ម្
1800	1022.6	80.2	74	153	2	4	16	30.20	1.1245	30.122	80	<b>0</b> . $0$ $0$	81	28	22
	1023.1	26.3	71		0	2	18	30.21	1.1842	30.136	85	0.000	28	74	23
	1023.6	23.0	20	14	1	2	12	30.23	1.1928	30.151	911	0.00	74	22	21
	1024.0	21.6	69	329	1	3	22		1.1965	38.162	92	0.00	72	71	69
2200	1024.2	20.8	69	20	2	3	16	30.25	1.1982	30.120	93	<b>0</b> . III)	21	21	69
2300	1024.4	21.6	69	52	2	4	12	30.25	1.1920	30.176	92	0.00	25	21	69
2400	1024.5	70.9	68	33	2	6	14	30.26	1.1989	30.129	92	0.00	71	20	68
Man	1019.6	66.4	66		0	2	12		1.1622			u . 00	67	66	64
Aue	1022.3	74.1	211	29	2	4	25		1.1887		_	0.00	25	<b>7</b> 3	73
Max	1024.5	83.2	74		4	8	42	30.26	1.2050	30.179	99	0.00	85	83	85
ราบ	1.6	6.3	3		1	2	9	.05	.0138	. 049	9	0.00	7	6	7
Tot										•		0.00			

#### SAMS Hourly Summarized Data Report

Elevation(ft):

Latitude : 39.50 Longitude : 76.07 5 SEP 1992 Spesutie Island

Time hhmm	Sea Lo Press mb	Air Temp F		เทอ	ພຣ	liind Spd	Dir	Altım -eter in Hg	ity	Press.	RH %			Mın Tmp F	
100	1024.7	73.6	71	69	5	10	15	30.26	1.1945	30.242	93	0.00	74	73	
2110	1024.8	<b>73.8</b>	71	90	5	9	15			30.244		0.00	74	74	
300	1025.0	73.6	71	102	4	9	16	30.27	1.1950	30.250	92	0.00	74	73	
400	1025.2	73.3	21	7B	6	10	13	30.28	1.1960	30.258	92	0.00	74	23	
500	1025.6	72.B	20	67	6	11	13	30.29	1.1928	30.269	92	0.00	73	73	
600	1026.1	73.2	71	60	7	14	13	30.30	1.1923	30.283	92	0.00	74	23	
200	1026.5	23.5	71	64	8	13	11	30.31	1.1972	30.295	91	0.00	74	73	
800	1026.7	23.8	71	84	8	18	14	30.32	1.1966	30.300	90	0.00	74	23	
9110	1022.2	24.5	71	72	7	12	12	30.33	1.1956	30.316	89	0.00	25	74	
1000	1027.3	24.2	21	71	7	14	1:3	30.34	1.1952	30.320	90	0.00	25	74	
1300	1027.4	25.5	72	87	6	11	15	30.34	1.1933	30.320	89	0.00	26	25	
1200	1027.3	26.8	73	86	5	9	15	30.34	1.1900	30.317	88	0.00	77	26	
1300	1026.8	77.3	23	83	6	12	14	30.32	1.1882	30.304	88	0.00	78	26	
1400	1026.6	76.2	73	81	8	13	13	30.31	1.1906	30.297	89	<b>0</b> . $00$	26	26	
1500	1026.5	25.2	72	82	8	14	13	30.31	1.1916	30.295	89	0.00	26	<b>7</b> 5	
1600	1026.1	74.8	72	87	8	15	15	30.38	1.1936	30.284	90	0.00	25	<b>7</b> 5	
1200	1026.4	74.7	71	107	7	14	15	30.31	1.1940	30.291	89	0.00	25	74	
1800	1026.8	74. i)	2ŋ	90	7	13	16	30.32	1.1964	30.303	89	0.00	74	74	
1900	1027.1	<b>73</b> . 6	20	90	7	14	15	30.33	1.1978	30.312	89	0.00	74	23	
2000	1027.2	$23 \cdot 0$	69	911	8	16	16	30.35	1.2001	30.331	89	0.00	73	23	
21.ព្រា	1028.3	20.2	68	90	8	16	15	38.36	1.2025	30.342	91	. 15	23	68	
2200	1028.5	69.1	62	67	9	17	13	30.32	1.2105	30.353	93	0.00	69	65	
2300	1028.0	69.1		67	9	17			1.2100		92	0.000	69	69	
2400	1022.6	69.2	67	74	9	15	13	30.35	1.2093	30.328	91	0.00	69	69	
Man	1024.7	69.1	-		4	9	11	30.26	1.1882	30.242	88	0.00	69	69	
Ave	1026.7			80	7	13			1.1972		911	.01	74	73	
Max	1028.5	<b>77.3</b>	23		9	18	16	30.37	1.2105	30.353	93	. 15	28	26	
STD	1 - 1	2.3	2		1	3	1	.03	.0062	. 031	2	. 03	2	2	
Tot												.15			

#### SAMS Hourly Summarized Data Report

Elevation(ft):

16 39.50 Spesutie Island Latitude : 6 SEP 1992

: 26.02 Longitude

Time hhmm	Sea Lo Press mb		Pt	MD	ผร	lilnd Spd	Dir	-eter		Sta. Press. in Hg		-	Max Tmp F	Tmp	
100	1027.5	69.1	66	72	9	16	13	30.34	1.2095	30.326	91	0.00	69	69	
200	1027.1	68.9	66	25	9	16	13	30.33	1.2093	30.311	92	0.00	69	69	
300	1026.8	68.9	66	74	8	14	13	30.32	1.2091	30.303	92	0.00	69	69	
	1026.1	68.9	66	75	9	15	13	30.30	1.2882	30.284	92	0.00	69	69	
	1026.1	69.0	62	74	9	15	13	30.30	1.2028	30.283	92	0.00	69	69	
	1026.5			76	9	17	12	30.31	1.2081	30.295	91	0.00	69	69	
200	1026.9	69.3	67	25	10	18	12	30.32	1.2081	30.306	91	0.00	70	69	
800	1027.2	69.2	62	<b>7</b> :3	10	17	13	30.33	1.2088	30.314	91	0.00	20	69	
900	1027.4	68.9	66	67	11	19	12	30.34	1.2097	30.321	92	02	69	69	
1000	1027.4	68.5	66	64	11	17	11	30.34	1.2108	30.323	92	.01	69	68	
1100	1027.3	68.6	66	65	9	17	12	30.34	1.2104	30.320	92	.01	69	68	
1200	1027.1	69.0	67	69	9	15			1.2092		92	. 01	69	68	
1300	1027.0	68.2		92	8	17	15		1.2098		92	. 06	69	68	
	1026.4	68.0		79	9	17	13		1.2108		92	. 0:3	68	68	
	1026.1	88.3		84	8	17			1.2097		92	.04	69	68	
	1025.9	68.1		2Ü	8	13			1.2099		92	. 11	68	68	
	1025.5	68.2		67	8	14			1.2080		93	.04	69	68	
_	1025.4	69.0		71	8	14			1.2071		92	. 02	69	69	
	1025.4	69.2		76	7	12			1.2067		92	0.00	69	69	
	1925.6	69.3		77	7	12			1.2065		92	0.00	<b>7</b> 11	69	
	1025.9	69.5		76	6	12			1.2064			0.00	<b>7</b> 11	69	
	1025.2	69.7		77	5	12			1.2052			0.00	20	20	
	1025.5	69.7		67	6	11			1.2054			0.00	20	20	
2400	1025.3	69.5	67	61	6	10	13	30.28	1.2056	30.258	93	0.00	7IJ	69	
Min	1025.3	68.0			5	10			1.2054			0.00	6੪	88	
Ave	1026.4	69.0		73	8	15			1.2084		92	. 01	69	69	
Max	1027.5	69.7	67		11	19	15	30.34	1.2108	30.326	93	. 11	20	7ñ	
STD	. 8	. 4	0		2	3	1	. u2	.0017	. 1122	0	.03	Û	1	
Tot												.35			

# APG Surface Observations EST (Add one hour for EDT) SAMS Hourly Summarized Data Report

Elevation(ft):

; 39.50 ; 26.02 Latitude 7 SEP 1992 Spesutie Island

Longitude

						Pk	STD								មានខ
`	Sea Lo	Air	Dia	Ave	Αv			Altım	Dens-	Sta.		Pre-	Max	Min	
Time	Press	Temp						-eter		Press.	RH			Tmp	
hhmm	mb	. <b>F</b>	F					in Hg			*	ın	F	F	F
100	1025.1	69.6	67	58	6	10	13	30.27	1.2052	30.253	92	0.00	20	69	
200	1025.0	69.6	67	56	5	10	13	30.27	1.2050	30.249		0.00	20	69	
300	1024.5	69.7	67	63	6	9	12	30.25	1.2043	30.236	92	0.00	78	20	
400	1024.2	69.8	67	72	6	10	13	30.25	1.2037	30.227	92	0.00	20	20	
500	1024.6	<b>7</b> 0.0	68	63	5	8	12	30.26	1.2036	30.238	92	0.00	20	20	
680	1024.8	69.9	68	59	5	9	12		1.2041		92	. 01	20	20	
200	1025.0	70.1	68	50	4	6	14	30.27	1.2038	30.252	92	0.00	20	20	
800	1025.1	70.3	68	38	4	7	14	30.27	1.2034	30.254	92	0.00	20	20	
900	1025.2	71.3	69	49	4	6	13	30.28	1.2012	30.258	92	0.00	72	70	
1000	1025.6	73.6	20	6:3	:3	6	13	30.29	1.1959	30.269	9.0	0.00	75	72	
	1025.5	76.7	<b>7</b> 3	62	.3	6	11	30.28	1.1880	30.264	88	0.00	78	25	
	1025.0	<b>76.1</b>	72	5	2	4	15	30.27	1.1890	30.250	88	0.00	77	26	
1300	1024.4	76.3	72	41	2	4	11	30.25	1.1880	30.234	88	0.00	77	76	
	1023.9	76.2		96	2	5	13	30.24	1.1876	30.219	88	0.00	22	26	
	1023.3	26.6	23	90	3	6	13	30.22	1.1859	30.201	88	0.00	28	26	
	1023.0	<b>76</b> . 1	.72	55	2	4	13	$30\cdot21$	1.1866	30.192	88	0.100	77	25	
	1023.0	<b>75</b> .2		55	2	6	12	30.21	1.1888	30.191	911	0.00	25	25	
	1022.9	25.1	72	86	4	フ	12	30.21	1.1890	30.189	90	0.00	25	25	
	1023.0	74.4	71	91	4	7	13	30.21	1.1909	30.193	90	0.00	25	74	
	1023.3	<b>7</b> 3 . 4	20	100	4	8	13	30.22	1.1936	30.199	911	0.00	74	23	
	1023.6		-	92	3	7	15	30.23	1.1951	30.209	91	0.00	23	73	
	1023.2	72.5	20	113	3	7	13	30.23	1.1962	30.211	91	0.00	23	22	
	1023.3		69	132	4	8			1.1921		91	0.00	72	72	
2400	1022.9	71.7	69	144	4	7	12	30.21	1.1972	30.189	92	0.00	72	<b>7</b> 2	
Min	1022.9	69.6			2	4			1.1859		88	0.00	20	69	
Ave	1024.2	72.9		72	4	7			1.1960		91	. 0.0	23	72	
Max	1025.6	76.7	73		6	1.0	15	30.29	1.2052	30.269	92	.01	28	<b>7</b> 6	
STD	. 9	2.7	2		1	2	1	. 03	.0020	.027	2	. 88	3	2	
Tot												. 01			

#### SPESUTIE ISLAND OBSERVATION SITE

\*Times listed are real time - no corrections are necessary\*

111103 1	13060	are real time - no corrections	are necessar	<u> </u>		
				TOTAL		
DATE	TIME	SKY CONDITION	VISIBILITY	SKY	TOTAL	KEY
		( x 100 = Height in feet )	(Miles)	1/10's	OPAQUE	
31 Au 62	0000	E12002000	7	9	9	GF= Ground Fog
DI AU	0900	100 DE 1200 2000	8	9	8	F= Fog
	1000	100 @ E/20@200@	10	9	8	H= Haze
	1100	120 @ 200 @	10	5	3	K= Smoke
	1200	120 @ 200 @	10	5	3	BS= Blowing Snow BN= Blowing Sand
}	1300	25 0 100 0 E 250 0	10	7	4	BD= Blowing Dust
	1400	200 250-D	10	A	2	IF- Ice Fog
[] ·	1500	250-D	10	4	1	D- Dust
1	1600	250-0	10	2	0	BY= Blowing
\$15ep92		0	10	0	0	<b>Spray</b>
1,123	0900	0	10	0	0	T= Thunderstorm
	1000	0	10	0	0	T+= Severe
	1100	0	10	0	0	Thunderstorm
ļ	1200	0	10	0	0	R= Rain
	1300	400	10	4	4	RW= Rainshower L= Drizzle
	1400	400	10	4	4	ZR= Freezing
1	1500	400	10	4	4	Rain
	1600	400	10	5		ZL= Freezing
\$25ep92	0800	500		5	5	Drizzle IP≔ Ice Pellets
	0900	50€	8	10	10	(Sleet)
	1000	50 <b>₽</b>	8	10	10	IPW=Ice Pellet
-	1100	50€	8	10	10	Shower
	1200	50€	8	10	10	S= Snow
		50€	8	10		SW= Snow Shower SP= Snow Pellets
	1400	50€	& & & &	10		SG= Snow Grains
	1500	300 600 1000	8	10	10	IC= Ice Crystals
	1600	300060001000	7	10	10	A= Hail
435ep192	0830	1501300	YFH	10	10	*********
7-7-	0900	1500 1300	YFH	10	10	Intensity of
	1000	8015W130A	4FH	10	10	precip.: - = Light
	1100	1501300	4FH	10	10	+ = Heavy
	1200	200130002300	54	10	10	No symbol =
		2500/30#	54	10	10	Moderate
	1400	25D1300	5H	10	in	**************************************
		25@130@	5TRW-H	10	10	Sky Condition:
-	1600	Z5 Ø 130 A	4RW-H	10	10	less than
\$45p192		-X 100 00 240 0	254	10	_9	1/10
	0900	-X100 @ Z40 &	2/2FH	10	10	①= Scattered = 1/10-5/10
	1000	-X 1000 Z400	3FH	10	9	D= Broken =
	1100	1000 2400	4HF	10	8,	6/10-9/10
	1200	1301000240-0	4#	8	4	- Overcast =
	1300	18 0 240-€	44	10		10/10 of
	1400	180 240-A	44,	10	5	sky is
	1500	ZSΦZ40-0	44	10	5_	covered.
	1600	ZSC) Z40-€)	44	10	5	

NOTE: A layer of clouds is considered to be thin if \(\frac{1}{2}\) or more of it is transparent; the sky condition symbol will be preceded by a (-) in such cases.

Visibilities of 7 or more miles are classified as unrestricted.

(-I) = sky partially obscured by surface based phenomena
(W2) sky completely obscured; vertical visibility is 200 feet

0:				Dat							
0:	ROUTING AND	TRAN	SMITTAL SLIP	21	Pur	n93					
	(Name, office symbol building, Agency/Pos	ame, office symbol, room number, ilding, Agency/Post)  Enver Miser  Chair Heinbach  ECCS-NE, Bldg, 860  EG/AA  File  For Clearance  Requested  For Correction  Prepare Reply  See Me  Investigate  Inves									
-	Denver Miser	on File Note and Return roval For Clearance Per Conversation Requested For Correction Prepare Reply rulate For Your Information See Me Investigate Signature redination Justify  Weteorological Summaries for the period:									
		_	V								
	STECS-NE, Bld	g. 8	60		-						
	ADC/AA										
-	AFG/AA										
					_		<u> </u>				
			File		L_L	and Retu	<u> </u>				
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D	,	RICA	T Smilligities for	the	: pe	erioa:					
D						eriod:					
D	Action File Note and Return Approval For Clearance Per Conversation As Requested For Correction Prepare Reply Circulate For Your Information See Me Comment Investigate Signature Coordination Justify EMARKS Daily Meteorological Summaries for the period:										
Di	O NOT use this for	m as clea	a RECORD of approverances, and similar action	93	oncu	ırrences,					
Di	O NOT use this for	m as clea	a RECORD of approverances, and similar actions (Post)	93	oncu	urrences.	-Bldg.				
Di	O NOT use this form ROM: (Name, org. symb TECOM Meteoro)	m as clea	a RECORD of approverances, and similar actions (Post)	93	Ro 20	urrences. om No.– 00 B	-Bldg.				
Di	O NOT use this for ROM: (Name, org. symb TECOM Meteorol AMSTE-TC-AM (A	m as clea	a RECORD of approverances, and similar actions (Post)	93	Roo 20 Ph	om No OO B one No.	Bidg. 1134				
Di FI	O NOT use this form ROM: (Name, org. symb TECOM Meteoro)	m as clea	a RECORD of approverances, and similar actions (APG)	93	Ro 20 Ph 3-	urrences. om No.– 00 B	-Bidg. 1134 908				

## SAMS Hourly Summarized Data Report

Elevation(ft): 55 Latitude : 39.28 14 JUN 1993 PHILLIPS FIELD

Langitude : 26.10

						Pk	STD								
	Car In	Oir	n <sub>c</sub> ,	Δue	Αu			Altim	Dens-	Sta.		Pre-			
	Sea Lo	Tame	D+	เมอ	MS.	Snd	Dir	-eter	ity	Press:	RH	cip	Tmp	Tmp	$Tm_{\mathbf{F}}$
Time	Press	1emp	F	deg	レナ	kt.	dea	in Hg	kg/m3	in Hg	*	in	F	F	F
hhmm	mb	r	C.	nea	K 1,		.2.5.3		-	_					
		55.2	50	243	0	2	11	30.21	1.2380	30.152	89	0.00	57	54	54
	1023.1	55.1		.) T.)	1	2	12	30.21	1.2383	30.148	89	0.00	57	54	54
-	1023.0			350	1	2	18	30.20	1.2415	30.137	91	0.00	54	53	53
	1022.6		50	.5	0	2	23		1.2441		92	0.00	53	52	51
	1022.4		-		1	2	18		1.2457		92	0.00	53	52	51
	1022.8	52.0		225	1	2	37	30.21	1.2411	30.152	92	0.00	58	52	55
	1023.1	54.0			1	2	32		1.2177		87		68	58	66
	1023.4	63.3			_	3	33	20 22	1.2019	30.163	73		72	68	71
	1023.5	70.1			1 2	6	42		1.1952		68	0.00	74	72	74
	1023.1	72.9		142	_	8	36		1.1910	30.145			25	74	76
	1022.8	74.4		146	3	11	22			30.124		0.00	76	75	26
	1022 1	25.3	57	91	6				1.1868	30.108		0.00	78	75	77
	1021.6	76 4		103	5	11		20.16	1.1812		46		80	78	79
	1021.3	78.7		137	5	10	26		1.1781		39		81	80	79
	1020.9	80.2		155	5	12	26	30.13	1.1771	20 077	-	0.00	81	29	79
	1020.4	80.3			5	11	35		1.1787		-	0.00	80	79	28
	1020.0	79.3		251	6	14	16		1 1707	30.052		0.00	80	79	77
	1019.7	79 . 4		258	6	11		30.11	1.1784	30.032	35		80		76
	1019.3	79 . 5		240	5				1.1828		41		79	74	74
1900		77.2		232	4		9		1.1942		63		74	20	69
2000	_	71.5		227	5		10	30.03	1.1942	20.032	80	-	70		67
2100		68.6		211	3		10	30.03	1.2002	20 042	82		69		66
	1019.3	68.5		232	5				1.1988			0.00			-
	1019.0	68.9		230	6				1.1996		-	0.00			
2400	1018.7	68.4	63	218	5	10	8	.50 . 08	1.1556	.30 . 02 4	1,5-1	0.00			
					_		6	20.00	1.1771	30 024	35	0.00	53	52	51
Min	1018.7	52.0			0		20	20.16	1.2033	30.02		0.00			68
Ave	1021.2	69.0			3				1.2457			0.00			79
Max	1023.5	80.3	63		6	14	42	30.22	1.2437	.513 . £15.5	., .	.,			
STD	1.7	10.1	5		2	4	11	. 05	. 0246	. 051	21	0.00	10	10	10
3110					_					*					
Tot												0.00			

#### SAMS Hourly Summarized Data Report

Elevation(ft): 55

Latitude : 39.28 15 JUN 1993 PHILLIPS FIELD

Latitude : 39.28 Longitude : 76.10

						Pk	STD								
	Sea Lo	Air	$D\omega$	Ave	Αv	Mnd	Und	Altim	Dens-	Sta.		Pre-	Max	Min	MBC
Time	Press	Temp	Pt	MD	แร	Spd	Dir	-eter	ity	Press.	КН	Gip	$Tm_{\mathbf{P}}$	Tmp	Tmp
hhmm	mb	F	F	deg	kt	kt.	deg	in Hg	kg/m3	in Hg	*	in	F	F	F
				_											
100	1018.7	67.1	62	198	3	6	10		1.2028		85	0.00	68	66	65
200	1018.3	65.6	62	175	4	8	8		1.2060		87	0.00	66	65	64
300	1017.9	64.5	61	171	2	4	20	30.06	1.2084	30.001	88	0.00	65	63	63
400	1017.7	64.2	61	197	2	5	13			29.993	89	0.00	65	63	63
500	1017.7	65.0	62	249	2	6	27		1.2065		89	0.00	65	65	54
600	1018.1	66.1	63	256	2	4	28	30.07	1.2045	30.007	89	0.00	67	65	65
200	1018.3	67.9	64	212	2	5	18	30.07	1.2001	30.013	88	0.00	70	67	68
800	1018.4	71.2	66	235	6	12	13	30.07	1.1923	30.014	84	0.00	72	70	71
900	1018.4	72.7	66	234	7	12	12	30.07	1.1890	30.015	81	0.00	73	72	73
1000	1018.2	73.7	67	224	8	13	12	30.07	1.1863	30.009	80	0.00	74	73	74
1100	1017.9	76.2	68	236	10	17			1.1802		76	0.00	78	74	77
1200	1017.3	78.1	68	224	11	16	12	30.04	1.1753	29.983	72	0.00	79	78	78
1300	1016.7	79.1	66	219	12	18	10	30.03	1.1728	29.965	64	0.00	80	78	78
1400	1016.4	80.0	64	219	12	18	12		1.1710		58	0.00	81	80	79
1500	1016.5	80.1	64	228	11	17	11		1.1710		58	0.00	81	79	78
1600	1016.2	79.3		218	10	17	10		1.1724		59	0.00	80	79	77
	1015.9	79.8		216	10	18	10		1.1709		58	0.00	81	79	77
	1015.8	78 . 6		216	8	14	10		1.1733		61	0.00	80	77	75
	1015.8	77.3			8	13	9		1.1761		64	-	78	77	74
	1015.9	25.3			7	12			1.1805		71	0.00	77	75	72
	1016.5	74.0			8	14	-		1.1834		80		75	74	72
	1017.1	73.0	-	242	5	9	9		1.1863		83	_	74	73	71
	1017.4	72.5		251	5	9	9		1.1879		83		73	72	70 70
2400	1017.6	71.9	67	255	6	11	7	30.05	1.1896	29.992	84	0.00	72	72	70
					_		_						05	63	63
Min	1015.8	64.2			2				1.1709		_	0.00	65	63	
Ave	1017.3	73.0		225	7				1.1873		76		74	72	
Max	1018.7	80.1	68		12	18	28	30.08	1.2086	30.023	89	0.00	81	80	79
CWD	1 0	5.5	2		3	5	6	. 03	. 0134	. 028	11	0.00	6	6	5
STD	1.0	ສ. ວ	2		3	J	6	. (13	. 0137	. 112 (1		21 . 1.0	Ü		4.
Tat												0.00			
1.30															

## SAMS Hourly Summarized Data Report

Elevation(ft):

55

16 JUN 1993

PHILLIPS FIELD

Latitude : 39.28 Longitude : 76.10

						Pk	STD								
	Sea Lo	Air	Dω	Ave	Αu	Glad	Wnd	Altim	Dens-	Sta.		Pre-			
Time	Press	Temp		MD	ผร	Spd	Dir	-eter	ity	Press.	RH	cip	Tmp	_	-
hhmm	mp	F		deg		kt	deq	in Hg	kg/m3	in Hg	*	in	F	F	F
trium			•	4.5			_		-						
100	1017.8	71.8	67	251	6	9	7	30.06	1.1900	29.996		N . OO	72	20	20
-	1018.1	69.3		325	2	4	11	30.07	1.1962	30.005	88	n.00	70	69	69
	1018.2	68.3		327	2	5	18		1.1989	30.010	89	0.00	69	68	67
	1018.8	66.7		10	2	7	15	30.09	1.2038	30.027	87	0.00	68	66	65
	1019.3	66.2		35	2	4	14	30.10	1.2058	30.042	84	0.00	67	66	64
600	1020.1	66.9		46	2	5	15	30.12	1.2052	30.064	82	0.00	69	65	66
200	1021.1	20.9		30	3	8	22	30.15	1.1967	30.094	77	0.00	72	70	71
800	1021.6	72.7		32	5	10	12	30.17	1.1937	30.108	69	0.00	74	72	73
	1021.9	25.3		17	4	10	24		1.1884		61	0.00	76	74	75
	1021.8	76.6		7	5	12	28	30.18	1.1858	30.116	55	0.00	78	76	77
	1022.0	28.0		352	4	10	31	30.18	1.1835	30.122	48	0.00	80	77	78
	1022.3	79.6	-	332	4	11	33	30.19	1.1806	30.128	4:3	0.00	80	79	79
	1021.6	80.5		354	4	10	37	30.17	1.1782	30.110	39	0.00	81	80	80
	1021.0	81.7		346	4	10	35	30.15	1.1751	30.090	36	0.00	82	81	82
	1021.0		51		3	10	38		1.1733		34	0.00	84	82	83
1600			51	_	3	9	39		1.1711		3.3	0.00	85	83	8.3
	1020.9	83.4			4	12	32		1.1711		35	0.00	85	82	81
1800	1021.1	81.6			4	7	12			30.094	37	0.00	82	81	78
1900		80.0			2	5	12	30.17	1.1791	30.110	41)	0.00	82		76
_	1021.8	72.9		238	1	.3	16	30.17	1.1947	30.114	57	-	77		
	1022.0	67.2			1	2	13	30.18	1.2073	30.122	76		70	65	
	1022.5	63.9	58		0	2	6	30.19	1.2157	30.134		0.00			
	1022.5	62.5	58		0	2				30.134		0.00			
	1022.5	60.5			1	2	23	30.19	1.2238	30.134	87	0.00	62	60	59
2 (1)															
Min	1017.8	60.5	51		0	2	6	30.06	1.1711	29.996		0.00			
Ave	1020.9	73.4		345	3	2		30.15	1.1922	30.089		0.00			
Max	1022.5	83.6	67		6	12	39	30.19	1.2238	30.134	89	0.00	85	83	83
STD	1.5	7.2	5		2	3	10	. 04	. 0155	. 043	22	0.00	7	7	7
Tot												0.00			

## SAMS Hourly Summarized Data Report

Elevation(ft):

PHILLIPS FIELD Latitude : 39.28 Longitude : 26.10 17 JUN 1993

						Pk	STD								
	Sea Lo	Air	Dω	Ave	Αv	Und	Und	Altim	Dens-	Sta.		Pre-	Max	Min	MBG
Time	Press	Temp		(dD	NS	Spd	Dir	-eter	ity	Press.	ВН	cip	Tmp		
hhmm	mb	F	F					in Hg	kg/m3	in Hg	%	in	F	F	F
		•	•	3			_	_	_						
100	1022.4	59.1	56	353	1	2	13	30.19	1.2272		89		60	58	58
	1022.4	58.3	55		0	1	В	30.19	1.2293		89	-	59	58	57
	1022.4	57.6		44	1	2	10		1.2310		90		58	57	56
	1022.6	56.8		4	1	3	27		1.2333		90	0.00	57	56	56
	1023.2	56.3		24	1	4	22		1.2352		91	0.00	57	56	55
	1023.9	58.8	56	318	1	2	25	30.24	1.2298	30.177	89	0.00	62	56	59
	1024.6	66.8		57	2	6	13	30.26	1.2108	30.196	81	0.00	70	62	68
	1024.9	71.4		20	5	9	11	30.27	1.2004	30.205	73	0.00	73	69	71
	1025.1	75.5		90	4	7	16	30.27	1.1914	30.210	64	0.00	77	73	75
	1025.1	78.9		111	3	7	25	30.27	1.1840	30.210	56	0.00	80	78	78
	1024.9	82.6		163	2	8	41	30.27	1.1762	30.205	46	0.00	84	. 80	83
	1024.5	83.9		147	4	10	31	30.26	1.1735	30.195	39	0.00	85	83	82
	1024.0	84.4		172	4	10	28	30.24	1.1723	30.180	37	[0.00]	85	84	82
	1023.8		54	202	4	11	33	30.23	1.1697	30.172	34	0.00	87	85	84
	1023.5	86.3		226	4	9	35	30.22	1.1676	30.163	34	0.00	87	86	85
	1023.0	86.8		_	4	9	27	30.21	1.1659	30.150	34	0.00	88	86	86
	1022.7	86.2			4	9	21	30.20	1.1666	30.141	35	8.00	87	85	84
	1022.3	84.4			4	8	13	30.19	1.1701	30.131	37	8.00	85	84	81
	1022.2	81.6	57	230	2	5	14	30.19	1.1759	30.127	43	0.00		79	78
	1022.2	25.2			1	2	22	30.19	1.1893	30.128	59	0.00		73	73
	1022.6	20.9		38	1	6	24	30.20	1.1990	30.138	72	0.00		69	70
	1022.8	70.4			2	7	14	30.20	1.1998	30.144	79	0.00		20	69
	1022.7	21.5			2	6	9	30.20	1.1969	30.140	79	0.00		71	69
	1022.5	20.4				6	8	30.19	1.1994	30.134	81	0.00	71	70	68
_ ,,,,,															
Min	1022.2	56.3	54		0	1	В	30.19	1.1659	30.127		0.00			55
Ave	1023.3	73.3		170	3	6			1.1956			0.00			72
Max	1025.1	86.8	65		5		41	30.27	1.2352	30.210	91	0.00	88	86	86
STD	1.0	10.9	4		2	3	9	. 03	. 0244	030	22	0.00	11	11	11
Tot												0.00			

#### SAMS Hourly Summarized Data Report

Elevation(ft): 55

Latitude : 39.28 18 JUN 1993 PHILLIPS FIELD

Longitude : 76.10

						Pk	STD								
	Sea Lo	Air	Dia	Ave	Αo	Mnd	Und	Altim	Dens-	Sta.		Pre-	Max	Min	MBG
Time	Press							-eter		Press.	RH	cip	Tmp	Tmp	Tmp
hhmm	mb								kg/m3	in Hg	%	in	F	F	F
				_		2	_		_	_					
100	1022.6	67.5	63	317	1	2	9	30.20	1.2063	30.138	85	0.00	20	66	66
200	1022.7	65.2	62	356	1	2	22	30.20	1.2122	30.140	89	0.00	66	65	65
300	1022.6	64.4	61	29	1	2	21	30.20	1.2138	30.138	90	0.00	65	64	64
400	1022.6	64.7	62	16	1	2	15	30.20	1.2131	30.139	90	0.00	65	64	64
500	1022.7	65.6	63	60	0	2	6	30.20	1.2108	30.140	91	0.00	66	65	65
600	1022.8	67.2	65		Ð	2	13	30.20	1.2069	30.145	91	0.00	69	66	67
	1022.9	71.5	68	20	1	2	23	30.21	1.1965	30.148	88	0.00	75	69	73
	1023.0	77.1		306	1	5	36	30.21	1.1832	30.151	82	0.00	78	75	<b>7</b> 8
900	1022.9	29.9	72	238	5	9	18	30.21	1.1765	30.147	28	0.00	82	78	81
1000	1022.5	82.3	73	243	4	8	22	30.20	1.1706	30.135	25	0.00	84	81	83
1100	1022.3	85.7		256	3	В	30	30.19	1.1626	30.128	71	0.00	87	84	88
1200	1021.6	88.5	25	27	3	10	39	30.17	1.1560	30.110	64	0.00	90	87	90
1300	1021.0	82.5	75	150	6	10	18	30.15	1.1570	30.090	67	0.00	88	86	88
1400	1020 4	87.5	74	158	6	11	14	30.13	1.1569	30.072	65	0.00	89	86	87
1500	1019.8	90.2	21	222	7	14	18	30.12	1.1515	30.057	54	0.00	91	89	88
1600	1019.4	90.2	67	229	8	12	12	30.10	1.1519	30.043	47	0.00	91	89	87
1700	1019.0	89.5	67	231	8	11	10	30.09	1.1530	30.031	48	0.00	90	89	86
1800	1018.7	88.4	69	231	6	10	10	30.08	1.1546	30.022	52	0.00	89	87	85
1900	1018.5	85.1	20	234	6	10	9	30.08	1.1610	30.018	60	0.00	87	83	81
2000	1018.5	80.8	69	231	3	6	5	30.08	1.1704	30.018	67	0.00	82	79	78
2100	1018.8	77.9	20	274	2	5			1.1767		77	0.00	79	77	76
2200	1019.1	76.8	71	275	2	4	7	30.09	1.1793	30.034	83	0.00	77	76	<b>7</b> 5
2300	1018.7	74.7	70	288	1	2	16	30.09	1.1840	30.025	86	0.00	76	74	74
2400	1018.5	<b>73.0</b>	69	277	1	3	17	30.08	1.1875	30.018	87	0.00	74	72	72
Min	1018.5	64.4			O	2	5	30.08	1.1515	30.018	-	0.00	65	64	64
Ave	1020.9	78.4	69	229	3	6	17	30.15	1.1788	30.088		$0\cdot 00$	80	77	78
Max	1023.0	90.2	75		8	14	39	30.21	1.2138	30.151	91	$0\cdot 00$	91	89	90
													_	_	_
STD	1.8	9.2	4		3	4	9	. 05	.0223	.054	14	0.00	9	9	9
									•			0 00			
Tot												0.00			

SAMS Hourly Summarized Data Report

55 Elevation(ft):

19 JUN 1993

PHILLIPS FIELD

Latitude : 39.28 Longitude : 76.10

•						Pk	STD								
	C F	04.5	Des	000	Ou	-	_	Altim	Dens-	Sta.		Pre-	Max	Min	MBG
<b>.</b>	Sea Lo							-eter		Press.	RH			Tmp	
Time	Press	Temp						in Hg	•	in Hg	%	in	F	F	F
hhmm	шp	F	r	deg	кт,	κι	ueg	In Mg	Kig / III.3	tu mg	~,	•	•	•	•
	4040.0	50.0		0.70	3	3	4	20 07	1.1851	20 011	87	0.00	74	73	73
	1018.3	73.9			_	3			1.1860		-	0.00	74	73	72
	1018.0	73 . 4		287	2	_			1.1889			0.00	73	71	71
	1017.8	72.2		285	2	3	9				-	0.00	73	71	71
	1017.9	71.7			2	3			1.1901		-	0.00	72	70	70
	1018.0	71.0			1	3			1.1921		-		74	20	71
600	1018.4	71.7	68	295	1	3	10		1.1907		88	0.00	-		-
700	1018.7	76.4	71	281	2	4	11		1.1797		82	0.00	79	74	77
800	1018.9	81.5	73	288	.3	6	13		1.1683		76	0.00	84	79	81
900	1019.3	84.3	74	291	5	11	12		1.1625		71	0.00	86	83	83
1000	1019.1	88.0	73	314	4	11	26	30.10	1.1548	30.037	61	0.00	90	86	87
	1019.1	90.1	72	316	4	10	26	30.10	1.1506	30.037	55	0.00	91	89	89
	1018.9	91.6		297	4	11	28			30.029	53	0.00	93	91	91
	1018.3	92.5	71	-	4	9			1.1449		49	0.00	94	92	92
	1017.7	93.5		277	4	11				29.995	48	0.00	94	92	92
	1017.3	91.5	20	_	5	9	24			29.983	5.0	0.00	93	90	88
	1017.0	92.7		221	4	10				29.974	51	0.00	94	91	91
	1017.0	90.4		40	3	10	19			29.973	52		94	82	89
	1018.4	80.1	_	13	7	35	16			30.014	71	.01	82	21	80
	1018.7	71.8		73	5	11	15			30.023	86	. 01	72	71	73
	1018.5	72.6		249	3	8		30.08	1 1888	30.018	86	0.00	73		73
	1019.0	72.0			3	6				30.032	85	0.00	73		71
		70.3		282	1	4				30.048	87	8.00			20
	1019.5				_	7				30.059	87	0.00	-		
	1019.9	71.5			3					30.042	_				
2400	1019.3	71.1	67	343	1	3	24	30.10	1.1554	30.042	O D	0.00	, ,	/ 1.	,
						_				00 070	40	0.00	71	20	20
Min	1017.0	20.3			1	3				29.973			_		79
Ave	1018.5	79.8		300	3					30.016	73	.00		_	
Max	1019.9	93.5	74		7	35	34	30.12	1.1955	30.059	88	. 01	94	92	32
											• •			9	9
STD	. 8	9.0	2		2	7	8	. 02	. 0202	. 023	16	. ຄຄ	9	3	5
Tot.												. 02			

# APG Surface Observations EST [Add one hour for EDT] SAMS Kourly Summarized Data Report

Elevation(ft): 20 JUN 1993 Latitude : 39.28 Longitude : 76.10 PHILLIPS FIELD

						Pk	STD								
	Sea Lu	Air	Dω	Ave	Au	Und	Und	Altim	Dens-	Sta.		Pre-			
Time	Press	Temp		ЮD	เมร	Spd	Dir	-eter	14.9	Press.	RH	-	_	Tmp	
hhmm	mb	F	F	deg	$\mathbf{k}\mathbf{t}$	kt	deg	in Hg	kg/m3	in Hg	%	in	F	F	F
100	1019.1	69.8	66	51	1	4	20		1.1964			0.00	70	69	69
	1018.9	69.8	66	44	1	3	25		1.1960	30.031	88	0.00	70	70	69
	1019.2	20.0	66	343	1	3	44		•	30.038	88	0.00	70	20	69
	1019.3	69.3	66		1	2	25		1.1977		89	0.00	20	69	69
	1019.4	68.3		49	1	3	25	30.10	1.2002	30.044	89	0.00	69	68	88
	1019.8	69.4	66	11	2	5	14	30.12	1.1979	30.056	90	0.00	71	68	70
	1020.0	72.9	69	61	3	6	11	30.12	1.1896	30.063	88	0.00	75	71	74
	1020.2	76.2	71	75	5	7	13	30.13	1.1819	30.067	83	0.00	78	75	28
	1020.2	79.9	73	24	3	8	22	30.13	1.1734	30.067	79	0.00	81	78	82
	1020.0	82.4	74	73	3	7	26	30.12	1.1673	30.060	76	0.00	84	81	85
	1019.8	85.5	76	125	3	9	27		1.1599		74	0.00	86	84	88
	1019.6	87.2	_	164	3	8	30	30.11	1.1557	30.051	73	0.00	89	86	89
	1019.1	89.2		197	4	10			1.1513	30.034	65	0.00	90	88	90
	1018.4	89.5		194	5	10			1.1497		65	0.00	90	89	90
	1017.7	89.9	77	208	5	11			1.1480		65	0.00	90	89	90
	1016.9	89.7	77	236	7	12			1.1476		66	0.00	90	88	89
	1016.9	87.9		236	6	1.0			1.1511		70	-	88	88	87
		85.7	76	238	5	10	11		1.1552		74		82	85	84
1900	1017.6	82.5	74	287	6	19	14		1.1643		76	_	85	79	80
2000	1017.7	74.8	69	311	3	11	36		1.1829		82	. 05	79	72	24
2100	1017.8	21.8	67	58	4	7	13		1.1900			0.00	72	71	72
2200	1018.5	71.6	67	332	4	_	25			30.017	85	. 07	72	71	71
2300	1018.3	20.7	66	4	3		18			30.010	86	. 12	72	70	70
2400	1017.4	70.2	66	129	1	3	39	30.05	1.1933	29.985	88	0.00	20	70	70
															60
Min	1016.6	68.3	65		1		11			29.962	65		69	68 77	68 28
Ave	1018.7	78.1	_	205			23			30.023	80		79		90
Max	1020.2	89.9	77		7	20	44	30.13	1.2002	30.067	90	. 12	90	おラ	50
			·			_	_	6.0	0100	022	13	. 03	8	8	9
STD	1.1	8.2	5		2	5	9	. 03	.0196	. 033	9	. 03	В	Ç	.,
												. 24			
Tot												. 24			

*Times listed are real time - no corrections are necessar	v*
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-1 Third T	ISLEO	are real time - it lorrections	are liecessar			
				TOTAL		
DATE	TIME	SKY CONDITION	VISIBILITY	SKY	TOTAL	KEY .
1993	TIME		(Hiles)	1/10's	OPAQUE	
1773		(x 100 - Height in feet)				
14fun		0	10	0	0	GF= Ground Fog F= Fog
0	0900	0	10	0	0	H= Haze
	1000	0	10	0	0	K= Smoke
1	1100	Z50-Ø ·	. 10	/	0	BS= Blowing Snow
11	1200	250-D	10	/_	0	BN= Blowing Sand
	1300	0	10	0	0	BD= Blowing Dust IF= Ice For
	1400	0	10	0	0	D= Dust
-	1500	.0	10	0	0	BY- Mowing
	1600	0	8	0	0	Spray
15 fem	0800	80150 250 D	88	10	9	**********
	0900	80/5@ZSO <del>@</del>	10	10	7_	T= Thunderstorm
	1000	15@ ZSO#	10	10	8	T+= Severe Thunderstorm
	1100	1500 250 <del>00</del>	8	10	8	R= Rain
	1200	150250-D		3 3	2	RW= Rainshower
1 .	1300	200250-D	10	3		L= Drizzle
	1400	250 250-0	10	3	/	ZR= Freezing
	1500	300 250D	10	3	2	Rain
	1600	300 ZSOQ	10	3	Z	ZL= Freezing Drizzle
16 fun	0800	0	10	0	0	IP= Ice Pellets
	0900	0	10	0	0	(Sleet)
	1000	Z50-D	10	2	7	IPW=Ice Pellet
1 - 1	1100	250-D	10	7	3	Shower
	1200	250-10	10	9		S= Snow
1	1300	Z50-D	10	9		SW= Snow Shower SP= Snow Pellets
1	1400	250-1D	10	6		SG- Snow Grains
11		.250-D	10	3		IC= Ice Crystals
	1600	0	110		0	A= Hail
17 kun	0800	ZSO-0	8	3		**********
1	0900	Z50-0	10	7		Intensity of
	1000	ZSO-0	10	8		precip.: _ = Light
	1100	250-D	10	7		+ = Heavy
		250-0D	10	2		No symbol =
		250-€	10	10		Moderate
	1400		10	9		****
11			10	9		Sky Condition:
	1600	250-0	10			O= Clear = less than
18 fun	0800	-X250-0D	3/4	8	3	1/10
1	0900	-X250-@	4HF	7	2	( = Scattered =
	1000	450250-0	44	4	2	1/10-5/10
	1100	450 250-D	44	3	7	D= Broken =
11	1200	450	ÚH	3	-	6/10-9/10
	1300	0	44	0	0	⊕= Overcast =   10/10 of
	1400	O	44	0	0	sky is
11	1500	0	44	0	0	covered.
	1600	.0	44	0	0	i

A layer of clouds is considered to be thin if or more of it is transparent; the sky condition symbol will be preceded by a (-) in such cases.

Visibilities of 7 or more miles are classified as unrestricted.

<sup>(-</sup>I) - sky partially obscured by surface based phenomena (W2 X) - sky completely obscured; vertical visibility is 200 feet

# Aberdeen Meteorological Network

r Fiel	illips Ai	Phi	16.8 M	Elevation:	7	itude: 76.1	Long	39.45	Latitude:		DCP7
WBG (°)	Total Precip (Inch)	Density (Kg/m3)	Press (Ins)	Rel Humd (%)	Dew Point (°F)	Air Temp (°F)	Peak Wind Speed (Mph)	Std Dev WD (°)	Wind Speed (Mph)	Wind Direct (°)	Time(EST) +1 hr (EDT)
				, 1995	uly 05	esday, J	Wedi				
69.	0.00	1.1954	30.13	100	70.3	70.4	4.3	55	2.1	20	1:00
69.3	0.00	1.1954	30.13	100	70.3	70.4	3.4	66	1.5	70	2:00
69.	0.00	1.1950	30.13	100	70.7	70.7	3.9	14	1.9	41	3:00
70.3	0.00	1.1936	30.13	100	71.2	71.2	3.1	38	1.4	99	4:00
70.	0.00	1.1930	30.14	100	71.6	71.6	5.7	21	1.7	139	5:00
71.3	0.00	1.1920	30.14	100	72.0	71.9	5.3	20	2.0	141	6:00
72.	0.00	1.1894	30.15	100	72.9	72.9	5.2	37	2.4	144	7:00
73.9	0.00	1.1869	30.17	100	74.1	74.1	6.4	19	3.3	191	8:00
78.4	0.00	1.1805	30.17	98	<b>7</b> 6.1	76.7	9.1	41	3.0	157	9:00
79.9	0.00	1.1736	30.16	94	77.5	79.4	9.7	19	5.9	164	10:00
79.	0.00	1.1726	30.18	92	<b>7</b> 7.5	80.1	10.7	24	7.0	204	11:00
82.6	0.00	1.1683	30.17	91	79.0	81.8	11.3	20	6.3	206	12:00
83.	0.00	1.1628	30.16	87	79.7	84.0	13.5	18	7.8	214	13:00
83.	0.00	1.1606	30.15	86	79.9	84.5	13.5	21	8.2	200	14:00
82.4	0.00	1.1617	30.15	87	79.9	84.1	12.0	19	8.0	212	15:00
82.4	0.00	1.1614	30.13	86	79.5	84.1	12.8	13	8.4	212	16:00
82.4	0.00	1.1597	30.12	86	79.9	84.6	11.1	16	7.3	215	17:00
79.	0.00	1.1641	30.12	86	78.3	82.9	11.4	10	6.8	214	18:00
78.3	0.00	1.1675	30.12	89	77.7	81.3	7.5	9	4.5	211	19:00
75.9	0.00	1.1724	30.12	92	76.8	79.3	7.1	15	3.8	223	20:00
73.0	0.00	1.1803	30.12	96	74.8	76.2	3.9	19	1.9	186	21:00
72.0	0.00	1.1855	30.12	97	73.2	74.2	5.0	25	2.2	164	22:00
70.	0.00	1.1863	30.13	94	72.3	74.2	7.5	17	4.1	192	23:00
70.2	0.00	1.1877	30.13	94	71.8	73.7	7.1	13	4.3	176	24:00
75.9		1.1786	30.14	94	75.3	77.3	7.9		4.4		Average
83.		1.1954	30.18	100	<b>7</b> 9.9	84.6	13.5		8.4		Maximum
69.3		1.1597	30.12	86	70.3	70.4	3.1		. 1.4		Minimum
	0.00										Total

Report created on:

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# Aberdeen Meteorological Network

DCP7		Latitude	39.45	Long	gitude: 76.	17	Elevation	: 16.8 M	Ph	illips Ai	r Field
Time(EST) +1 hr (EDT)	Wind Direct (°)	Wind Speed (Mph)	Std Dev WD (°)	Peak Wind Speed (Mph)	Air Temp (°F)	Dew Point (°F)	Rel Humd (%)	Press (Ins)	Density (Kg/m3)	Total Precip (Inch)	WBGT
				Thu	rsday, Ju	uly 06,	1995				
1:00	177	3.0	13	6.1	72.6	71.4	96	30.13	1.1902	0.00	70.0
2:00	156	3.5	10	6.2	72.5	71.2	96	30.12	1.1898	0.00	70.3
3:00	141	2.8	16	5.7	72.1	71.4	98	30.11	1.1905	0.00	70.2
4:00	162	2.3	9	4.3	71.6	71.2	99	30.10	1.1916	0.00	70.2
5:00	127	1.6	16	3.2	71.6	71.2	99	30.11	1.1912	0.00	70.3
6:00	112	2.4	14	5.7	72.2	72.0	99	30.11	1.1899	0.00	71.4
7:00	138	4.2	14	8.5	74.2	73.6	98	30.11	1.1848	0.00	73.9
8:00	155	4.4	15	7.8	76.0	75.0	97	30.11	1.1801	0.00	75.7
9:00	172	4.8	17	9.1	77.7	76.5	96	30.10	1.1757	0.00	77.4
10:00	194	8.5	19	13.5	79.9	77.9	94	30.10	1.1697	0.00	79.3
11:00	188	8.1	18	13.0	81.6	<b>7</b> 9.3	93	30.10	1.1654	0.00	81.0
12:00	174	8.8	19	15.4	83.2	81.0	93	30.09	1.1608	0.00	83.1
13:00	181	10.6	16	16.4	84.9	81.9	91	30.06	1.1559	0.00	84.4
14:00	189	12.2	17	20.0	86.0	81.7	87	30.04	1.1522	0.00	84.6
15:00	191	12.0	15	19.2	86.8	81.3	84	30.01	1.1500	0.00	84.7
16:00	180	11.1	15	17.1	86.9	81.1	83	29.99	1.1488	0.00	84.4
17:00	214	10.1	21	15.5	84.8	79.9	85	30.01	1.1547	0.00	80.8
18:00	274	10.6	- 26	23.1	77.3	73.4	88	30.05	1.1756	0.39	73.4
19:00	261	3.7	21	6.8	70.2	69.6	98	30.03	1.1923	0.00	70.0
20:00	190	1.6	64	3.9	70.3	70.0	99	30.02	1.1918	0.00	69.4
21:00	86	2.7	26	6.6	70.1	69.8	99	30.03	1.1924	0.01	69.1
22:00	166	2.7	41	5.0	70.5	70.2	99	30.02	1.1911	0.00	69.3
23:00	154	1.3	71	3.3	69.9	69.6	99	30.01	1.1922	0.00	68.7
24:00	176	2.0	16	3.7	70.0	69.6	99	30.01	1.1915	0.00	68.9
Average		5.6		10.0	76.4	74.6	95	30.07	1.1778		75.0
Maximum		12.2		23.1	86.9	81.9	99	30.13	1.1924		84.7
Minimum		1.3		3.2	69.9	69.6	83	29.99	1.1488		68.7
Total										0.40	

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# Aberdeen Meteorological Network

DCP7		Latitude: 39.45		Longitude: 76.17			Elevation: 16.8 M		Phillips Air Field		
Time(EST) +1 hr (EDT)	Wind Direct (°)	Wind Speed (Mph)	Std Dev WD (°)	Peak Wind Speed (Mph)	Air Temp (°F)	Dew Point (°F)	Rel Humd (%)	Press (Ins)	Density (Kg/m3)	Total Precip (Inch)	WBGT
				]	Friday, Jul	y 07, 1	1995				
1:00	178	1.0	55	2.8	69.9	69.6	99	29.99	1.1915	0.01	68.7
2:00	70	0.8	28	3.7	69.3	69.1	99	29.98	1.1923	0.00	68.4
3:00	155	1.5	20	3.4	69.9	69.6	99	29.96	1.1903	0.00	68.9
4:00	165	1.4	23	3.4	70.2	69.8	99	29.96	1.1892	0.00	68.9
5:00	191	1.3	16	3.1	70.3	70.0	99	29.97	1.1891	0.00	69.3
6:00	135	0.9	21	2.4	70.6	70.3	99	29.97	1.1888	0.00	69.8
7:00	350	1.5	87	4.5	71.2	70.9	99	29.99	1.1879	0.01	70.3
8:00	314	2.0	39	5.9	71.4	71.1	99	30.00	1.1879	0.02	70.5
9:00	313	1.4	45	3.9	72.5	<b>7</b> 2.1	99	29.99	1.1847	0.00	72.3
10:00	188	1.6	53	4.3	75.3	74.1	96	29.98	1.1771	0.00	75.7
11:00	210	3.4	17	6.5	76.3	74.7	95	29.97	1.1740	0.00	76.3
12:00	198	5.7	30	11.0	78.6	76.1	92	29.96	1.1683	0.00	78.8
13:00	209	5.9	25	11.3	79.4	76.3	90	29.95	1.1657	0.00	80.1
14:00	169	5.4	24	10.3	81.1	77.2	88	29.93	1.1612	0.00	81.1
15:00	143	5.3	17	9.0	81.0	77.4	89	29.92	1.1605	0.00	80.4
16:00	131	4.2	19	7.4	81.4	77.5	88	29.90	1.1589	0.00	80.4
17:00	128	4.8	17	8.4	82.4	78.1	87	29.88	1.1559	0.00	81.3
18:00	136	4.8	20	8.5	81.3	77.4	88	29.87	1.1580	0.00	79.0
19:00	262	1.4	80	3.2	76.9	75.0	94	29.87	1.1689	0.00	74.5
20:00	208	1.8	84	5.6	74.7	74.1	98	29.87	1.1740	0.00	73.2
21:00	162	0.9	15	5.7	74.3	73.6	98	29.87	1.1754	0.00	72.3
22:00	130	1.2	78	3.6	72.9	72.5	99	29.87	1.1785	0.00	71.6
23:00	240	2.1	23	3.6	73.0	72.7	99	29.86	1.1782	0.00	71.6
24:00	25	1.7	46	3.8	72.0	71.8	99	29.87	1.1810	0.00	70.9
Average		2.6		5.6	74.8	73.4	95	29.93	1.1766		73.9
Maximum		5.9		11.3	82.4	78.1	99	30.00	1.1923		81.3
Minimum		0.8		2.4	69.3	69.1	87	29.86	1.1559		68.4
Total										0.04	

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# Aberdeen Meteorological Network

	Wind Direct (°) 225 264 316 295	Wind Speed (Mph)	Std Dev WD (°)	4.8	Air Temp (°F) irday, Ju	Dew Point (°F)	Rel Humd (%)	Press (Ins)	Density (Kg/m3)	Total Precip (Inch)	WBGT (°F)
2:00	264 316 295	1.6 1.4	24	4.8		ıly 08,	1995				
2:00	264 316 295	1.6 1.4	24		71.5						
	316 295	1.4		4.0		71.2	99	29.87	1.1822	0.00	70.5
	316 295		nere.	4.6	71.0	70.7	99	29.85	1.1829	0.00	69.6
	295		65	2.5	68.9	68.5	99	29.84	1.1879	0.00	68.0
4:00		2.2	61	5.1	68.9	68.5	99	29.84	1.1881	0.00	68.0
5:00	263	2.6	29	8.4	68.6	68.4	99	29.84	1.1887	0.00	67.5
6:00	299	1.4	70	5.0	68.1	67.8	99	29.85	1.1904	0.00	66.9
7:00	280	3.0	8	5.6	69.8	69.3	98	29.85	1.1862	0.00	70.0
8:00	269	4.3	15	7.5	74.7	72.0	91	29.85	1.1740	0.00	73.9
9:00	286	5.6	18	9.9	78.3	72.0	81	29.85	1.1661	0.00	76.1
10:00	287	5.6	21	13.2	80.5	72.1	76	29.84	1.1610	0.00	78.1
11:00	302	6.4	20	13.6	80.9	71.1	72	29.84	1.1608	0.00	77.0
12:00	288	9.1	20	17.9	81.1	69.1	67	29.85	1.1610	0.00	76.6
13:00	286	9.9	21	19.1	81.2	67.5	63	29.85	1.1615	0.00	76.3
14:00	284	9.7	20	19.7	81.6	66.4	60	29.83	1.1605	0.00	76.6
15:00	292	8.7	20	17.5	81.2	65.1	58	29.82	1.1614	0.00	75.7
16:00	296	8.1	23	16.7	80.5	65.8	61	29.82	1.1626	0.00	75.2
17:00	320	8.6	22	17.2	77.5	64.8	65	29.83	1.1697	0.00	73.0
18:00	315	8.1	20	17.4	75.3	61.3	62	29.85	1.1767	0.00	70.5
19:00	303	6.8	22	20.0	72.7	<b>5</b> 9.0	62	29.88	1.1839	0.00	67.1
20:00	307	4.6	16	9.7	68.7	57.4	67	29.89	1.1940	0.00	63.0
21:00	302	2.8	15	6.4	66.4	57.0	, <b>72</b>	29.90	1.1994	0.00	61.2
22:00	293	2.0	9	4.5	63.6	57.0	79	29.91	1.2064	0.00	59.2
23:00	306	2.6	16	5.0	62.5	57.9	85	29.91	1.2088	0.00	58.6
24:00	308	3.6	15	9.1	62.1	57.9	86	29.91	1.2096	0.00	58.3
Average		5.0		10.9	73.1	65.7	79	29.86	1.1802		69.9
Maximum		9.9		20.0	81.6	72.1	99	29.91	1.2096		78.1
Minimum		1.4		2.5	62.1	57.0		29.82	1.1605		58.3
Total		••-				2				0.00	

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# Aberdeen Meteorological Network

DCP7		Latitude	: 39.45	Lo	ngitude: 76.	17	Elevation	ı: 16.8 M	Ph	illips Ai	r Field
Time(EST) +1 hr (EDT)	Wind Direct (°)	Wind Speed (Mph)	Std Dev WD (°)	Peak Wind Speed (Mph)	Air Temp (°F)	Dew Point (°F)	Rel Humd (%)	Press (Ins)	Density (Kg/m3)	Total Precip (Inch)	WBG7
				Sı	ınday, Ju	ly 09,	1995				
1:00	322	3.7	20	7.4	62.0	57.7	86	29.91	1.2099	0.00	58.1
2:00	304	3.6	24	10.3	62.0	57.7	86	29.91	1.2100	0.00	58.1
3:00	299	2.7	22	7.7	61.0	57.4	88	29.90	1.2119	0.00	57.4
4:00	279	2.2	25	7.7	59.5	<b>5</b> 6.7	90	29.90	1.2159	0.00	56.3
5:00	237	1.4	29	3.8	56.4	55.2	96	29.91	1.2237	0.00	54.5
6:00	241	1.3	14	2.9	57.1	56.3	97	29.92	1.2222	0.00	58.3
7:00	287	3.0	23	6.1	62.4	60.1	92	29.93	1.2093	0.00	63.1
8:00	317	4.7	23	10.9	66.2	60.8	83	29.93	1.2004	0.00	66.0
9:00	307	4.8	30	10.3	68.7	60.8	76	29.94	1.1950	0.00	68.2
10:00	300	3.7	38	11.2	69.0	60.3	74	29.93	1.1941	0.00	67.5
11:00	306	4.6	26	11.7	70.1	61.0	73	29.93	1.1914	0.00	68.9
12:00	320	4.8	42	15.6	71.6	61.7	71	29.93	1.1875	0.00	71.2
13:00	297	3.6	50	10.0	73.0	63.0	71	29.91	1.1838	0.00	72.9
14:00	298	4.5	42	10.3	74.0	63.1	69	29.90	1.1806	0.00	73.8
15:00	308	4.7	33	11.8	75.0	64.0	69	29.89	1.1780	0.00	73.6
16:00	298	2.9	51	8.9	75.9	64.9	69	29.88	1.1754	0.00	74.3
17:00	301	4.0	39	9.8	76.7	65.3	68	29.87	1.1731	0.00	73.9
18:00	315	3.2	25	7.8	77.3	65.1	66	29.88	1.1722	0.00	73.6
19:00	34	2.1	46	5.0	76.5	66.4	71	29.88	1.1735	0.00	72.0
20:00	72	0.6	47	2.1	68.8	64.4	86	29.89	1.1914	0.00	65.5
21:00	20	0.1	1	1.2	65.0	63.3	94	29.89	1.2008	0.00	62.4
22:00	329	1.0	25	2.4	62.5	61.9	98	29.90	1.2073	0.00	60.6
23:00	300	1.2	39	3.4	61.0	60.6	99	29.90	1.2111	0.00	59.5
24:00	310	0.6	9	2.1	61.1	60.8	99	29.91	1.2115	0.00	59.7
Average		2.9		7.5	67.2	61.2	82	29.91	1.1971		65.4
Maximum		4.8		15.6	77.3	66.4	99	29.94	1.2237		74.3
Minimum		0.1		1.2	56.4	55.2	66	29.87	1.1722		54.5
Total										0.00	

# Aberdeen Meteorological Network

DCP7		Latitude	: 39.45	Lor	gitude: 76.	17	Elevation	n: 16.8 M	Pł	nillips Ai	r Field
Time(EST) +1 hr (EDT)	Wind Direct (°)	Wind Speed (Mph)	Std Dev WD (°)	Peak Wind Speed (Mph)	Air Temp (°F)	Dew Point (°F)	Rel . Humd (%)	Press (Ins)	Density (Kg/m3)	Total Precip (Inch)	WBG
				Mo	nday, Ju	ly 10,	1995				
1:00	345	0.6	18	1.8	61.6	61.3	99	29.91	1.2099	0.00	60.3
2:00	344	1.8	10	4.1	62.5	62.2	99	29.90	1.2073	0.00	61.2
3:00	311	0.8	52	1.9	63.0	62.8	99	29.90	1.2056	0.00	61.7
4:00	284	0.8	25	2.0	63.1	62.8	99	29.90	1.2052	0.00	62.1
5:00	240	3.0	25	10.1	64.0	63.3	98	29.91	1.2037	0.01	63.0
6:00	264	2.1	33	4.4	64.9	64.2	98	29.92	1.2018	0.00	63.5
7:00	285	0.7	19	2.3	65.1	64.8	99	29.94	1.2015	0.00	64.0
8:00	300	2.0	23	4.7	66.8	66.2	98	29.94	1.1977	0.00	
9:00	266	3.2	22	5.4	69.9	68.0	94	29.95	1.1901	0.00	66.4
10:00	237	4.7	29	10.9	73.6	71.2	92	29.94	1.1805		68.7
11:00	<b>226</b>	6.3	17	10.7	77.0	70.7	81	29.95	1.1731	0.00	74.3
12:00	234	6.4	25	11.2	79.1	70.9	76	29.94	1.1731	0.00	76.3
13:00	240	5.0	31	11.4	80.9	71.1	72	29.93	1.1638	0.00	80.8
14:00	193	7.8	21	12.1	81.2	70.9	71	29.93 29.92		0.00	
15:00	185	8.2	22	13.6	81.2	70.5	70	29.92	1.1630	0.00	82.6
16:00	182	9.9	16	14.8	81.1	70.3	70	29.91 29.89	1.1627	0.12	79.5
17:00	194	10.4	14	14.4	80.8	69.6	69	29.89	1.1623	0.00	79.3
18:00	198	9.0	10	13.5	80.0	69.8	71	29.88	1.1630 1.1647	0.00	79.7
19:00	202	5.8	11	11.1	77.2	69.1	76	29.88	1.1710	0.00	78.6
20:00	200	2.6	6	4.3	74.5	68.5	82	29.88	1.1769	0.00	74.3
21:00	200	3.8	10	8.3	73.0	70.2	91	29.88	1.1795	0.00	72.0
22:00	212	4.3	7	6.0	73.2	71.1	93	29.91	1.1798	0.00	70.7
23:00	198	3.7	19	5.7	73.1	71.6	95	29.90	1.1797	0.00	71.1
24:00	213	3.5	24	5.6	72.2	71.2	97	29.89	1.1797	0.00	70.7
Average		4.4		7.9	72.5	68.0	87	29.91	1.1830	0.01	70.0
<b>faximum</b>		10.4		14.8	81.2	71.6	99	29.95			70.9
Minimum		0.6		1.8	61.6				1.2099	,	82.6
Total		0		1.0	01.0	61.3	69	29.88	1.1623		60.3
T OUR										0.14	

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r Fiel	illips Ai	Ph	16.8 M	Elevation	7	gitude: 76.1	Lon	39,45	Latitude:		DCP7
WBG	Total Precip (Inch)	Density (Kg/m3)	Press (Ins)	Rel Humd (%)	Dew Point (°F)	Air Temp (°F)	Peak Wind Speed (Mph)	Std Dev WD (°)	Wind Speed (Mph)	Wind Direct (°)	Time(EST) +1 hr (EDT)
				1995	ly 11,	sday, Ju	Tue				
68.	0.10	1.1846	29.89	97	70.2	71.0	21.2	85	2.7	119	1:00
64.	0.81	1.1996	29.90	98	64.9	65.4	27.4	58	8.9	40	2:00
64.	0.01	1.1985	29.89	99	65.1	65.5	9.9	28	4.3	77	3:00
64.	0.00	1.1993	29.87	99	64.6	64.9	6.3	45	3.3	271	4:00
63.	0.00	1.2014	29.88	99	64.0	64.3	6.4	27	2.9	356	5:00
64.	0.00	1.2011	29.89	99	64.4	64.6	6.2	10	3.4	44	6:00
67.	0.00	1.1960	29.92	99	66.7	67.0	5.8	19	2.9	8	7:00
70.:	0.00	1.1912	29.92	98	68.4	69.0	6.6	22	3.5	12	8:00
75.0	0.00	1.1813	29.92	96	71.6	72.8	7.1	41	2.9	349	9:00
75.	0.00	1.1761	29.92	93	72.7	74.9	7.9	30	3.7	333	10:00
77.	0.00	1.1708	29.94	92	74.8	77.3	9.1	45	4.7	69	11:00
80.	0.00	1.1665	29.94	90	75.9	79.1	9.8	26	5.2	72	12:00
	0.00	1.1603	29.93	87	77.2	81.4	7.8	38	3.6	70	13:00
	0.00	1.1592	29.92	86	77.2	81.7	8.3	60	3.3	132	14:00
	0.00	1.1545	29.90	72	74.3	84.3	7.5	66	3.0	324	15:00
	0.00	1.1540	29.90	63	71.1	85.1	9.6	39	4.3	315	16:00
	0.00	1.1537	29.89	69	73.4	84.7	9.3	74	4.1	109	17:00
	0.00	1.1598	29.91	77	73.9	81.9	7.6	10	4.8	147	18:00
	0.00	1.1661	29.92	80	72.7	79.4	5.9	18	3.2	174	19:00
	0.00	1.1763	29.93	90	72.0	75.2	2.9	25	1.0	193	20:00
	0.00	1.1843	29.94	95	70.5	72.1	2.9	9	0.9	271	21:00
	0.00	1.1904	29.96	98	69.3	69.9	2.1	14	0.6	278	22:00
	0.00	1.1963	29.97	99	67.5	67.8	2.2	29	1.1	294	23:00
	0.00	1.1974	29.98	99	67.1	67.4	3.2	70	1.1	208	24:00
69.8		1.1800	29.92	91	70.4	73.6	8.0		3.3		Average
80.4		1.2014	29.98	99	77.2	85.1	27.4		8.9		Maximum
63.5		1.1537	29.87	63	64.0	64.3	2.1		0.6		Minimum
	0.92										Total

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# Ground Moisture

DATE	POSITION # AND LOCATION	BULK DENSITY	DRY DENSITY	* MOISTURE
3/9/92	1 135 m	102.50	80.81	26.90
	2 450 m	77.00	52.65	46.25
•	3 400 m	97.98	69.57	40.84
	4 300 m	100.30	68.44	46.67
	5 170 m	101.20	77.01	31.52

DATE	POSITION # AND LOCATION	BULK DENSITY	DRY DENSITY	% MOISTURE
3/16/92	1 135 m	77.72	57.83	34.39
•	2 450 m	79.36	49.56	60.11
	3 400 m	77.41	59.75	29.56
	4 300 m	76.94	49.44	55.61
	5 170 m	91.57	69.68	31.42
	6 135 m	75.37	51.02	47.72
	7 135 m	79.96	36.67	100.00

DATE	POSITION LO		BULK DENSITY	DRY DENSITY	% MOISTURE
3/23/92		35 m	94.81	68.54	38.32
	2 4	50 m	96.32	67.67	42.33
	3 4	00 m	91.32	61.21	49.17
	4 3	00 m	85.53	47.06	81.71
	5 1	70 m	88.98	67.89	31.06
	6 1	35 m	74.44	49.24	51.16
	7 1	35 m	64.38	28.68	124.4
	8 P	erryman	87.97	64.92	35.50
3/24/92	5	170 m	89.37	64.64	38.26
3/25/92	1	135 m	97.63	72.90	33.93
	2	450 m	78.04	48.98	59.47
		400 m	82.71	57.13	44.76
		300 <del>170</del> m	87.90	53.96	62.88
	5	170 m	88.42	68.30	29.47
	6	135 m	73.24	49.66	47.49
	7	135 m	67.83	32.05	111.6
	8	Perryman	67.83	76.16	26.51

Note: 7. Moisture above 100% is unreliable.

DATE	POSITION # AND LOCATION	BULK DENSITY	DRY DENSITY	<b>% MOISTURE</b>
3/30/92	1 135 m	96.24	74.04	29.99
-, ,	2 450 m	91.58	65.78	39.23
	3 400 m	94.29	71.63	31.64
	4 300 m	80.98	52.26	54.95
	5 170 m	93.14	74.75	24.59
	6 135 m	70.65	49.56	42.55
	7 135 m	71.06	37.82	87.91

DATE	POSITION # AND LOCATION	BULK DENSITY	DRY DENSITY	* MOISTURE
4/6/92	1 135 m	90.82	70.94	28.03
	2 450 m	86.03	58.99	45.82
	3 400 m	83.80	72.14	16.15
	4 300 m	68.78	46.72	47.19
	5 170 m	87.48	68.98	26.82
	6 135 m	69.41	49.82	39.31
	7 135 m	68.06	39.19	73.68

DATE	POSITION # AND LOCATION	BULK DENSITY	DRY DENSITY	% MOISTURE
4/13/92	1 135 m	92.84	75.66	22.71
	2 450 m	85.38	62.64	36.30
	3 400 m	90.63	79.16	14.48
	4 300 m	66.77	44.26	50.86
	5 170 m	87.64	70.88	23.64
	6 135 m	61.67	44.67	38.06
ý.	7 135 m	62.47	39.81	56.93

# U.S. ARMY COMBAT SYSTEMS TEST ACTIVITY ABERDEEN PROVING GROUND, MARYLAND 21005-5059 ENGINEERING DIRECTORATE PHYSICAL TEST DIVISION REPORT NO. 92-CC-264

STECS-EN-PC	Date of Report: 3 April 1992				
Title of Report:	Soil Analysis for Physical Dosimetry in Simulated				
	Tactical Nuclear Environments				
TECOM Project Title: Physical Dosimetry in Simulated Tactical					
	Nuclear Environments				
TECOM Project No.	: 2-CO-430-APR-100 W.O. No. 330-79214-70				
Conducted for: _	Dr. Craig Heinbach, Test and Research Div Bldg 860				
References:	Operation Manual of Seaman Nuclear Moisture/Density				
_1	Meter, SOP 385-304				

#### 2.1. Introduction

Moisture and density measurements were determined and recorded a day prior to test day, the day of the test and the day after testing. Measurements were taken in the 400 meter field and around the reactor.

Testing was conducted from 23 March through 25 March 1992.

## 2.2 SOIL ANALYSIS

## 2.2.1 Objective

To determine the bulk and dry densities and moisture content of the soil around the reactor area for the simulated nuclear environments test.

#### 2.2.2 Criterion

None.

## 2.2.3 Test Procedure

- a. The area covered during this test was the 400 meter field adjacent to the reactor and several locations around the reactor, and one location on Perryman Test Course. Eight readings were taken at various measured and marked distances from the reactor the day prior to and the day after actual reactor testing. On the day of the actual test only one reading was taken at Position 5, located at 170 meters. All positions were marked so that readings would be taken at the same locations each time a test was performed. Locations are shown in the drawing in Appendix I.
- b. The moisture and density data were determined by using a C-200 Seaman Nuclear Moisture/Density meter. The bulk density, dry density and percentage of moisture were calculated electronically by the meter using the following formulas:
  - (1) <u>Air gap count</u> = wet (bulk density)

  - (3)  $\frac{G/\text{cm (lbs/ft ) water x 100}}{\text{Dry density}} = \text{% moisture}$

# 2.2.4 Test Findings

Table 1, Appendix II, shows the moisture and density data for each day of testing.

## 2.1.5 Technical Assessment

The moisture content ranged from 24 to 100 percent. No criterion were given for the density or percent moisture.

2 Encls Appendix I - Drawing Appendix II - Tables

SUBMITTED:

WAYNE A. NOBLE Chemistry Branch

REVIEWED:

ROBERT F. DURGIN

Chief

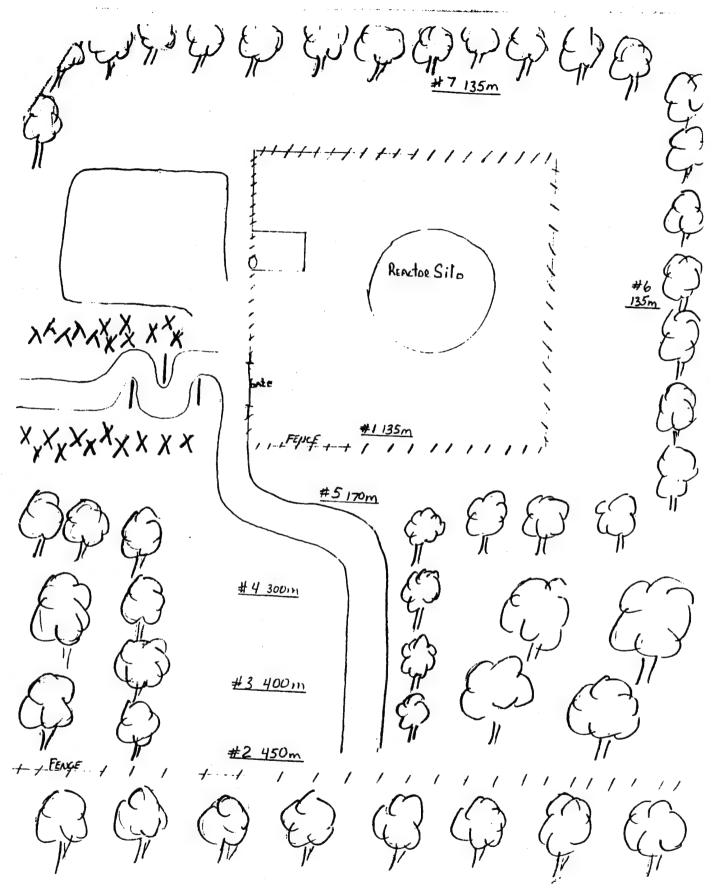
Chemistry Branch

APPROVED:

JAMES P. FINFERA

Chief

Physical Test Division



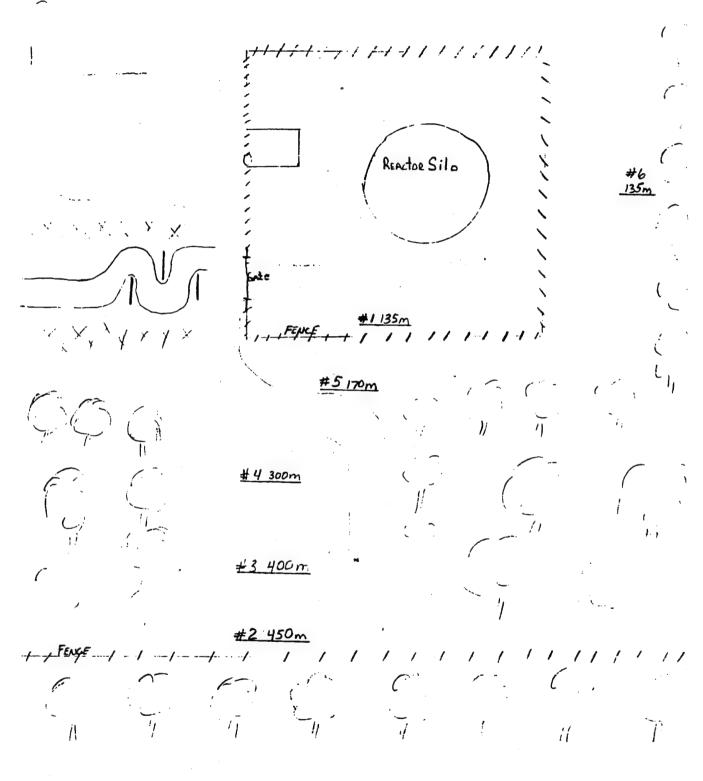
APPENDIXI

#8 Perryman Test course

TABLE 1. MOISTURE DENSITY TEST DATA

			:	
DATE	POSITION # AND LOCATION	BULK DENSITY	DRY DENSITY	1 MOISTURE
3/23/92	1 135 m	94.81	68.54	38.32
	2 450 m	96.32	67.67	42.33
	3 400 m	91.32	61.21	49.17
	4 300 m	85.53	47.06	81.71
	5 170 m	88.98	67.89	31.06
	6 135 m	74.44	49.24	51.16
	7 135 m	64.38	28.68	100.0
	8 Perryman	87.97	64.92	35.50
3/24/92	5 170 m	89.37	64.64	38.26
3/25/92	1 135 m	97.63	72.90	33.93
	2 450 m	78.04	48.98	59.47
	3 400 m	82.71	57.13	44.76
	4 <del>170</del> m	87.90	53.96	62.88
	5 170 m	88.42	68.30	29.47
	6 135 m	73.24	49.66	47.49
	7 135 m	67.83	32.05	100.0
	8 Perryman	67.83	76.16	26.51

APPENDIT



#8 Perryman Test course

<u>DATE</u>	POSITION # AND LOCATION	BULK DENSITY	DRY DENSITY	% MOISTURE
5/26/92	1 135 m	88.00	71.41	23.21
	2 450 m	84.98	63.53	33.76
	3 400 m	88.18	72.27	22.03
	4 300 m	88.16	65.19	35.23
	5 170 m	82.59	68.00	21.46
	6 135 m	67.99	48.46	40.29
	7 135 m	98.82	73.70	34.08
	8 700 m Perryma		r this position	due to rain.

DATE	POSITION # AND LOCATION	BULK DENSITY	DRY DENSITY	* MOISTURE
5/27/92	3 400 m	102.80	82.20	25.07
	5 170 m	81.51	61.38	32.79
	10 1600 m Obsticle course	71.02	55.09	28.89

DATE	POSITION # AND LOCATION		BULK DENSITY	DRY DENSITY	* MOISTURE
5/29/92	1	135 m	87.78	70.12	25.19
	2	450 m	71.06	51.23	38.07
	3	400 m	96.48	78.40	23.06
	4	300 m	87.76	67.75	29.53
	5	170 m	86.88	73.00	19.00
	6	135 m	67.78	51.38	31.92
	7	135 m	87.04	63.15	37.83
	8	700 m Perryman	99.33	83.71	18.66
	9	Perryman Hill	103.70	93.72	10.70
		1600 m bsticle course	85.45	75.24	13.56
	11	Michaels	84.23	68.61	22.76

DATE	POSITION # AND LOCATION	BULK DENSITY	DRY DENSITY	* MOISTURE
6/8/92	1 135 m	89.17	70.30	26.83
	2 450 m	83.45	59.91	39.10
	3 400 m	96.72	74.90	29.13
	4 300 m	105.2	79.93	31.71
	5 170 m	89.37	72.91	22.57
	6 135 m	67.81	47.56	42.57
	7 135 m	92.35	58.18	58.72
	10 1600 m Obsticle course	85.45	66.95	27.64
	11 Michaels	82.42	60.29	36.70

DATE	POSITION # AND LOCATION	BULK DENSITY	DRY DENSITY	* MOISTURE
6/17/92	1 135 m	87.20	76.93	13.34
	5 170 m	113.8	93.79	21.33
	6 135 m	75.36	57.63	30.75
	7 1350 m	105.9	79.02	34.11
	12 m	88.63	73.01	21.39
	13 m	94.46	83.83	12.68
	14 m	82.39	69.78	18.07
	15m	95.43	83.06	14.89

#14 Repotor Sile  $_{x}^{\prime}_{x}^{\phantom{\prime}}_$ # 4 300m #3 400 m

APPENDIX I

<u>DATE</u>	POSITION # AND LOCATION	BULK DENSITY	DRY DENSITY	* MOISTURE
7/7/92	1 135 m	92.09	75.21	22.44
• •	2 450 m	84.02	63.65	32.00
	3 400 m	102.7	86.97	18.16
	4 300 m	110.7	90.75	22.04
	5 170 m	94.63	77.50	22.09

	_			
DATE	POSITION # AND LOCATION	BULK DENSITY	DRY DENSITY	<pre>% MOISTURE</pre>
8/24/92	1 135 m	91.00	73.27	24.18
	2 450 m	90.58	67.68	33.82
	3 400 m	95.37	78.61	21.32
	4 300 m	104.8	86.15	21.69
	5 170 m	112.2	92.49	21.37
8/25/92	1 135 m	80.98	64.28	25.98
	3 400 m gravel	113.1	107.2	5.480
8/27/92	2 450 m	85.09	65.57	29.78
	3 400 m gravel	131.5	126.7	3.787
	4 300 m	110.9	94.57	17.34
	15 70 m	94.80	91.52	16.28
8/28/92	15 70 m	92.62	78.69	17.71
8/31/92	5 170 m	97.16	79.37	22.40
	13 70 m	107.3	91.61	17.18
	7 135 m	87.93	64.88	35.52
	3 400 m gravel	114.0	108.9	4.682
	4 300 m	95.15	79.17	20.18
9/1/92	8 700 m Perryman	100.8	91.88	9.803
9/2/92	8 700 m Perryman	77.96	70.82	10.08
9/3/92	3 400 m gravel	117.2	109.8	6.720

DATE	POSITION # AND LOCATION	BULK DENSITY	DRY DENSITY	% MOISTURE	
6/14/93	1 300 m	74.63	53.47	39.56	
	2 300 m	59.30	42.04	41.08	
	3 300 m	81.92	61.13	33.99	
	4 170 m	106.7	91.57	16.52	
	5 1600 m Obsticle course	99.26	91.44	8.550	
	6 Michaels ville	74.34	65.22	13.97	

DATE		TION # LOCATION	BULK DENSITY	DRY DENSITY	% MOISTURE
6/15/93	1	300 m	74.47	53.78	38.47
	2	300 m	Position und	der tent no data.	
	3	300 m	60.15	44.37	35.57
	4	170 m	86.87	75.81	14.58
	5	1600 m Obsticle course	97.80	89.52	9.250
	6	Michaels ville	77.58	69.39	11.80

DATE	POSITION # AND LOCATION	BULK DENSITY	· DRY DENSITY	% MOISTURE
6/16/93	5 1600 m Obsticle course	91.30	83.66	9.123
	6 Michaels ville	87.88	80.71	8.883

DATE		TION # LOCATION	BULK DENSITY	DRY_DENSITY	% MOISTURE
6/18/93	1	300 m	72.94	56.50	29.08
	2	300 m	Position und	ler tent no data.	
	3	300 m	61.82	48.22	28.31
	4	170 m	98.06	86.90	12.83
	5	1600 m Obsticle course	89.32	83.73	6.682
	6	Michaels ville	71.09	63.92	11.21

# Run Sheets

Operation		No	55	;91-		12	3
Note	3	MA	4	91			

Experiment X20-85 Approval TPC# 11-90 Dosimetry On exp
Exp. Location 400 m, 1.1Km Dist to RX C/L 400 m, 1.1La EXP INSP BY DEH
RHD Track # 6 Height MAYUP Dist to Bldg Ctr MAY OUT RHD INSP BY DRH
Rx Core 56 GHL on B10 Shield On Safety tube On RX. INSP BY DEH
RX Operator MC6 HP Operator DCM RX Supervisor DRH
RX Console Check HP Console Check Log Book Reviewed
Clearance # 53 APRF Area Checked Keys Accounted For
REMARKS: TLD's in Box w/ Phantom 0; Los Alginos on Hill w/ Lined
Spectrometer. HPL, ETCA, AFRRI on Phunton in Box Box
Procham Mada : (S) PP
Reactor Power Level Required 8KW Reactor Houe . (23/83)  Linear Level 30 Range 10 Duration: 375 mins(22500 sees)
Linear Level 30 Range 10 Duration: 073 mins(2000)  1/e Level 11 Range 10-4 Estimated Peak Temperature 4320°C
1/e Level   Range   O   Estimated Peak Temperature   School   Estimated Peak Temperature   School   Sc
TIME: 1/e 0943 24 Shutdown 1609 47
Time 10945-11317-1330-160947 TEMP 3000 KW MINS FLIX
1 30 38 30 30 Sc#1 602° #1 68
M & Linear Range 10-4 10-5 10-4 42 588 #2 572
10 10 10 10 10 10 10 10 10 10 10 10 10 1
LE 15 5 1/C # 7   68.0   321.2   211.0   319.2   214 MINS @ 8 KE 1712
3 3 T/C #8 6/10 310.1 199.0 309.8 13 MINS @ KW = 13
11.582
8 8 8 MAR 1725
PP 10 11/12 1775 (28KW 1275
PY Power     VI dy )
Time above 350°C NO NE Integrated Power (Instru) 50 Kw ?-HRS
Duration of Operation 23183 Sas Integrated Power (Sulfur)
Remarks Coolin, w/o Vortex "B" Tower Notified 11 bug they @ 1621
Operator (sign) M Duyn Supervisor (sign) Manux
STECS-NE Form 402, 1 Oct 89 (Previous editions of this form are obsolete)  A-97
A-97 /609 -

APRF	STEAL	Y	STAT	Œ	LOG
(rev	ised	1	Oct	89	9)

APRF STEADY STATE LOG	Operation No
(revised 1 Oct 89)	Date 24 Mar 92
Experiment X20-85 Approval	
Exp. Location Various Outdoors Dist to RX	
RHD Track # 6 Height 46'11 Dist to B1	
Rx Core $5B$ GHL $oN$ B10 Shield $oN$	1
RX Operator MCG HP Operator 2	
RX Console Check HP Console Check	
Clearance # 53 APRF Area Checked	
REMARKS: Desimetry @ various outdoor location	s stands w/ TDis, Sulfur, Chlorin + goll.
@ 170,300, 400, 450, 3 stands in treeline	
Reactor Power Level Required 50 Mars 8	kw Reactor Mode : (SS) PP
Linear Level 63 30 Range 3×10 10-4 D	ouration: DATA mins (secs)
11 13 / // name 3 1/0 / 15 T	atimated Book Temperature = 3/0 C
TIME: 1/e //35 %	Shutdown 1754 30
Time   1/37 30   1/49 20   175\$ 30	
Linear Level 63 30	PM#1 6.8x104 375.
Linear Range 3k/0 -7 /0-4	PM#2 1.4 X104 3000. k
Log N 0, 45 80	LN#3 1.15×10 4
T/C # 7 14.5 61.5 318.0	
T/C #8 14.5 54.0 316.0	7 mins (2) 50 wett = 0.35
SB 11.5 92 /	
MAR 5.214 5.347	Flux
1, 820 2.300 6.10Z	#1 64 %
RX Power 50 Walls 8 KW	#3 54 % 3000135 Ku/11
	ed Power (Instru) 3 000 Kw Mins
Duration of Operation 375 Mms Integrate	ed Power (Sulfur)
Remarks Cooling w/o Voites " B	" Tower Notified M Commas @ 1800
Operator (sign) MC Supervisor	or (sign)
STECS-NE Form 402, 1 Oct 89 (Previous edit	

Experiment X								,
Exp. Location	1600	VARIOU.	S Dist t	o RX C/I	VARIOUS	EXP INSP	BY DISH	
RHD Track # _					_			
Rx Core 5	$\mathcal{B}_{\mathtt{GHL}}$	مر_ 100	Shield <u></u>	Safe	ty tube ON	_RX. INSP	BY DRH	
RX Operator _	MCG	HP Op	erator S	TCB /DO	2∕⁄⁄ RX Super	rvisor DK	ut	
RX Console Ch				/		_		
Clearance # _	52	APRF	Area Che	cked _	Keys Acc	ounted For	<u>.</u>	
REMARKS:	NA	Vari	ious P	Positio	ns			
		•						
Reactor Power	Level R	equired	8K			de : (SS)	PP	
Linear Level			_	Durat	ION: MIN. FOR	mins(	secs)	
1/e Level	_//_ 1	Range/	10-4	Estim	ated Peak Te	mperature_	=320°C	_
	TIME	: 1,	/e     1   1 3	36	Shutdown	1611 36	• • • • • • • •	
Time	111536	114826	1611 26		!			
Linear Level	1	28.5	1011		1 35 00 11 8 6	9 8 KW 5	280 K	
Linear Range	· -				263,4ins @			
Log N	75			<u>'</u>	29 8 mins		7 17210	KW /
I/C # 7	1 4 00 0	310.3	316,2					
I/C #8 •		295.4						
SB	11.586		-			· · · · · · · · · · · · · · · · · · ·		
MAR	5. <b>5</b> 98							
RR	-	5.496	5.6 20			•		
RX Power		7.5KW			'   			
Time above 35	0°c _ <i>No</i>	N L	Integr	ated Po	wer (Instru)	2252.5	Kwh	י ויי
Ouration of O	peration	298 Min	<u> </u>	ated Po	wer (Sulfur)			
Remarks Cool	ing W/o	Voita	ur "	' B " To	wer Notified	1 N/A		
perator (sig	n) Mc 2	higi	_ Superv	visor (s	ign) <i>Ulli</i>	Hamill		
STECS-NE Form		V				`	lete)	

Operation		No. 55	92-155	
Date	27	MAY	92	

Experiment 120-85 Approval TR 5-92 Dosimetry ON EXP.
Exp. Location 170 mylere Dist to RX C/L 170 EXP INSP BY DRH
RHD Track # 6 Height MAX Up Dist to Bldg Ctr MAX OUT RHD INSP BY DRH
Rx Core 53 GHION B10 Shield ON Safety tube ON RX. INSP BY DRH
RX Operator MCG-HP Operator DCM RX Supervisor DRH
RX Console Check HP Console Check Log Book Reviewed
Clearance # 52 APRF Area Checked _ Keys Accounted For
REMARKS: DNA @ 170 M and Michaelsville Runge area
Reactor Power Level Required
Linear Level 63 Range 3×10-8 Duration: 5.0 mins( 300 secs)
1/e Level 23 Range 3x/v 8 Estimated Peak Temperature 4 70 C
TIME: 1/e 1712 °7 Shutdown 1717 °7
Time   1714 07   1
Linear Level 63
Linear Range 3×10-5
Log N 0.05
T/C # 7 29.0 29.5
T/C #8 28.0 28.7
SR
MAR 11.5 92
RR  7 (10   7 (10   )
RX Power   3.810   3.818
Time above 350°C Nove. Integrated Power (Instru) 0.025kwatt on as
Duration of Operation 5 MINS Integrated Power (Sulfur)
Remarks No Cooling "B" Tower Notified IN
Operator (sign) M( Jugin Supervisor (sign) Marul
STECS-NE Form 402, 1 Oct 89 (Previous editions of this form are obsolete)

APRF	STEAD	Y	STAT	E	LOG
(rev	ised	1	0ct	89	)

							. ~	
APRF STEADY STATE LOG				Ор	eration No		- <i>1</i> 36	
(revised	1 Oct 8	9)		Da	te <u>28</u>	May 92	<del></del>	
Experiment	<u> X20-8</u>	35	Approva	1 Tr	5-92 D	osimetry	on Exp.	
Exp. Location <u>/</u>	ARIO-S O	nfdor	Dist to	RX C/L	135-1100	EXP INSP B	IY DR4	
RHD Track # 6	Heigh	t 40'1"	Dist to	Bldg Ct	r 149'10	RHD INSP E	ly <u>Dr</u> H	
ex Core 58	GHL 6	MB10	Shield_	J Safet	y tube of	RX. INSP E	Y DRH	
RX Operator	HE	AP Ope	erator _	DCM	RX Supe	rvisor	Dref	
RX Console Chec	k V	/ _ HP Cor	sole Che	ck V	Log Bool	k Reviewed _	<u> </u>	
Clearance #	51	APRF A	rea Chec	ked	Keys Ac	counted For	V.	
REMARKS:	rold,	Su/fu	. C	135,1	70 , 300,	400 450 A	nefe 5 (K	#)
Die (2) 11	L. 11	11 11	Tw/_					
Reactor Power I	Level Re	quired	10	watts	Reactor M	ode : SS	PP	
Linear Level _	38 R	ange	10 7	Durati	.on: <u>5</u>	mins(_ 35	secs)	
l/e Level _	14_ R	ange	10	Estima	ted Peak T	emperature_	=100 C	
	TIME:	1,	'e /00%	7 35	Shutdown	10143	<u>-</u>	
Time	101135	101435	-					
Linear Level	38							
Linear Range	10-7							
Log N	0,09			   				
T/C # 7	25.0	24.8	!   .	! !		·		
T/C #8	24.5	24.3						
SB	11.590	<u> </u>	¦					
	5,000		<u> </u>	<u> </u>				
RR	2.488	2.378						
RX Power	10 wetts		 	i				
Time above 350	°c_71	our	Integ	rated Po	wer (Instru	1)	5 KW-MU	ns
Duration of Ope	eration	5 min	<u>Integ</u>	rated Po	wer (Sulfur	:)		
Remarks	10 co	oling		" B " To	wer Notifie	$\frac{1}{\sqrt{1 - \frac{1}{2}}}$		
Operator (sign	)	lim	Super	visor (s	ign) <u> </u>	Harrell		
CTUCE ME Form	402 1 C	nat 80 /	Pravious	edition	s of this f	orm are obs	olete)	

APRF STEADY STATE LOG Operation No. SS92-157
(revised 1 Oct 89)  Date 28 May 92
Experiment X20-85 Approval TRC 5-92 Dosimetry ON EXP
Exp. Location Various outdow Dist to RX C/L /1/ km EXP INSP BY DR. #
RHD Track # 6 Height 4011/2 Dist to Bldg Ctr 14910 RHD INSP BY DRH
Rx Core SB GHL ON B10 Shield on Safety tube on RX. INSP BY DRH
RX Operator HP Operator Dom RX Supervisor DRH
RX Console Check HP Console Check Log Book Reviewed
Clearance # APRF Area Checked Keys Accounted For
REMARKS: DUK APPET 1/05, metry on 1.1 km Hill
and other locations outside Kx. Bly
Reactor Power Level Required 8 kw Reactor Mode: SS PP
Linear Level 30 Range 164 Duration: 375 mins(22,500 secs)
1/e Level // Range /0-7 Estimated Peak Temperature <u>4320</u> C
TIME: 1/e //16 19 Shutdown 173/19
Time   ///8   1731
Linear Level 30 —
Linear Range I . VI
Log N / 1/6 19 / 1/16 19
73 17311
<u> </u>
T/C #8 .   57   3027
SB  //,589  —
MAR 5,623 —
1.780 5.568
RX Power 8kW -
Time above 350°C None Integrated Power (Instru) 3000 kw-min)
Duration of Operation 375 MmsIntegrated Power (Sulfur)
Remarks Sub-cooled work of cos/4-temp 16.12 " B " Tower Notified / Mc Comps 1772
Operator (sign) Wayn Supervisor (sign) Whatle
STECS-NE Form 402, 1 Oct 89 (Previous editions of this form are obsolete)

APRF STEADY	STATE LOG		Operation No	22.42-108	
(revised 1	Oct 89)		Date 29 M	MY 92	
		TP	C 12 - Q2		
Experiment X 20	-85 A	Approval I	PC 5-92 Dos	imetry ON 6	<u>3x7.</u>
Exp. Location 70					_
RHD Track # 6	Height <i>MAX Up</i> I	list to Bldg	ctr MAX Our	RHD INSP BY _	DRA
Rx Core $5B$	GHL ON B10 St	nield <u>e</u> NSa	fety tube on	RX. INSP BY	DRH
RX Operator	FC HP Opera	ator <u>DC</u>	M RX Superv	isor DRH	!
RX Console Check					<del></del>
Clearance #5	APRF Are	a Checked _	V Keys Acco	unted For 🔽	<u> </u>
REMARKS: DOE					
Manual					
		·-/·····			
Reactor Power Lev	el Required	500W	_	e : SS PP	)
Linear Level 👸	Range 346	Dur	MIN FOR ation: DATA m	ins(	secs)
1/e Level <u>23</u>	. •	Est	imated Peak Tem	perature = 3	0°C
	TIME: 1/e			1200 28	
	TIME: 1/e	101838		1200	
Time //O	20 /200		!		
Linear Level /	2				
Linear Range   2	2   -   -				
124	0	i		6090	<u>)                                    </u>
Log N 4	5   041	<u> </u>			
T/C # 7	7 9400		1		
T/C #8 30,	9 91,3				
75	590 -				
MAD	nr				
RR			_	•	<del></del>
DV Power	084 2,996	¦			
70	DW	i	i		
Time above 350°C	- None	Integrated	Power (Instru)_	50.75	Kw- hins
Duration of Opera	tion 10/05 min	Integrated	Power (Sulfur)_		
Remarks Cooling on	@ 95 mins (NO VX	1 B "	Tower Notified_	1 Bun	Ke- 1205
Remarks Cooling on (	Holin	Supervisor	(sign)	tanell	
STECS-NE Form 402					

APRF STEADY				0	peration	No	<u> 5592-</u>	186	
(revised 1	1 Oct 89	<b>)</b> )		D	ate	17	JUN 9	-	
ExperimentX				1 TPC	14-92	Dosi	netry	ON ESP.	
Exp. Location									
RHD Track # 6	_ Height	HAX.	Dist to	Bldg C	tr out	RI	ID INSP	BY DEC	
Rx Core 5B	_GHL_ <i>O</i>	B10 لم	Shield_6	لم Safe	ty tube_6	R)	. INSP	BY THE	
RX Operator	MCG	_HP Ope	rator _	Dem	RX Su	pervis	or _	H/C	
RX Console Check	k	HP Con	sole Che	ck	_ Log B	ook Re	viewed		
Clearance #	54	APRF A	rea Chec	ked	Keys	Accour	ited For		
remarks: 4	Genel	Di	sinch	y in	vehicl	le			
				<i>'</i>					
Reactor Power Le	evel Req	uired _	8	Kw	Reactor	Mode	SS	PP	
Linear Level	<u>30</u> Re	inge	154		ion: <u>90</u>	min	15 ( 5,40	D secs)	
1/e Level	<u>//                                   </u>	inge	<u>/v''</u>	Estim	ated Peak	Tempe	rature_	= 320°C	
	TIME:	1/	e 1001	33	Shutdo	wn	31 33	•	
Time	0333	1131 3			!				
Linear Level	30		i		'   				
	10-4	/	   		; ! !				
LOF N I	80	/							
T/C # 7	(7.1	317.2							
T/C #8	77.4	302.9			]				
er i	1.584				İ				
MAR 5	.524	/	į		i I				
RR 2	.350	5.761	i		i I		•		
DV Power	3KW	/	i		i I				
Time above 350°C		ne					20.0	Kw Mins	\$
Duration of Oper									
Remarks (o)	, I A.					jed_	NA		
Operator (sign)_	M Sh	eign_	_ Superv	isor (s	ign)	Olo	//		
CTECC NE For- 40	12 1 0-	- 90 (P	revious	edition	s of this	form	are.obsc	olete)	

_	
APRF STEADY STATE LOG Operation No. 5592-210 (revised 1 Oct 89)	
(CRH) TPC Date 7 July 92	
Experiment X20-85 Approval 5-92 Dosimetry on exp	
Exp. Location See remo- ks Dist to RX C/L See remo- Ks EXP INSP BY DRH	
RHD Track # 6 Height MARCUP Dist to Bldg Ctr mar DVT RHD INSP BY DRH	
Rx Core 53 CHL on B10 Shield on Safety tube on RX. INSP BY DCH	
RX Operator MCG HP Operator DCM RX Supervisor DRH	
RX Console Check _ L HP Console Check _ Log Book Reviewed	
Clearance # 52 APRF Area Checked V Keys Accounted For	
REMARKS: 135, 170, 300, 400, 450 Metars	
Au, Sulfor, and Chlarine Dosinetry	
Reactor Power Level Required   Reactor Mode : (SS) PP	
Linear Level 30 Range 10-4 Duration: 6hrs 15-mins (22500 secs)	
1/e Level 11 Range 10-4 Estimated Peak Temperature = 320°c	
TIME: 1/e 0957 10 Shutdown /6/210	
Time 0959 16/2 16/2	
linear Level	
Linear Range 10-4 50 Kw Hrs	
LOP N	
1/C # 7	C
173.0   315.9	
1/C #8 65.0 300.8 0957'	
11.585 1.585 1.12 15 15 15 15 15 15 15 15 15 15 15 15 15	
1AR 5.692 /612	
1.750 S.466	
X Power 8KW	
Time above 350°C None Integrated Power (Instru) 3000,0 Ky Mins	
uration of Operation 22500 kts Integrated Power (Sulfur)	
emarks (ooling Wo Vortex "B" Tower Notified @/1615 Gun Hong	
perator (sign) M.C. Duyi Supervisor (sign)	
TECC ME Form (02 1 Oct 80 (Browleys odd)	

APRF STEADY STATE LOG (revised 1 Oct 89)	Operation No. 3592.228
Experiment X20-85 Approval	TRE 5-92 TRE12-92 Dosimetry ON EXP.
Exp. Location / 70 METERS Dist to I	RX C/L 170 M EXP INSP BY DRN
RHD Track # 6 Height MAX UP Dist to I	Bldg Ctr MAX OUPRHD INSP BY DAY
Rx Core 58 GHL ON B10 Shield OA	Safety tube OAJ RX. INSP BY DOA
RX Operator MC HP Operator	DCM RX Supervisor DU
RX Console Check HP Console Check	k Log Book Reviewed
Clearance # 56 APRF Area Checke	ed Keys Accounted For
REMARKS: US/CA AT 170 M.	
Reactor Power Level Required 500kg	
Linear Level 63 Range 3X/0-6	Duration:mins(secs)
1/e Level 23 Range 3×10 5	Estimated Peak Temperature 100°C
	4/ Shutdown /4/30_00
Time   1322 41 1430 00	
Linear Level 63	
Linear Range 3×10	Servo @ 57.5
Log N 4.1	
T/C # 7	51.6 × 10 -8 Picamete Buting
T/C #8 *1   1   1	31.6 × 10 /10 aneto 1
$\frac{30.0   90.0  }{11.592}$	
MAR	
RR 1.411 0 ( 7/2)	
RX Power   1.011   2.6 70	
501474	7/ 6 4 4
	ted Power (Instru) 35,0 Kw Mins
Duration of Operation 70 mins Integrat	11
	3 " Tower Notified M?
Operator (sign) Mc Juyn Supervis	sor (sign) Whatelex

STECS-NE Form 402, 1 Oct 89 (Previous editions of this form are obsolete)

					t out onelassisticalistations ou	<b>-</b> -		
APRF STEAM	1 Oct 8	89)		+0	Operation Date 21	4 Au	692	•
Experiment $\lambda$	20-8	5	Approv	al Tro	# 5-92	Dosime	try <u>on</u>	exp
Exp. Location_	170,	<u>u</u>	Dist t	o RX C/	L 170 .	EXP	INSP BY	DRH
RHD Track #	/ 2 Heigl	nt MAx v (	Dist t	o Bldg	Ctr MM c	NT RHD	INSP BY	DRH
Rx Core 5B	GHL_	<u>0n</u> B10	Shield_	oh_Saf	ety tube	Oti_RX.	INSP BY	DEH
RX Operator	mc6	HP Ope	rator _	DCM	RX Su	perviso	r Deh	
RX Console Che	ck	HP Con	sole Ch	eck	✓ Log B	ook Rev	iewed	<u></u>
Clearance #	56	_ APRF A	rea Che	cked	✓ Keys	Account	ed For _	<u> </u>
REMARKS: U.S								
	•							
Reactor Power	Level R	equired _	50	Watt	Reactor	Mode :	(SS)	PP
Linear Level _	63 1	Range 3x	10-7	Dura	tion:	mins	PATA	_secs)
l/e Level _	23 1	Range 3x	10-7	Esti	mated Peak	Temper	ature	= 100°
					Shutdo			
Time	1528 43	1648 2		   	1		,	
Linear Level	63			 	-i			10.00
Linear Range	3 ×10.7				-			
Log N	0.41			! !	Sir	100 =	57.5	
T/C # 7		63.5			-			
T/C #8		63.6		! !	Pin	,, <u>.</u>	47.8 2	10-9
SB	11.591	1		! !			,,,,,,	
MAR	5,500				-			
RR		2.160		! !	- !		•	
RY Power	50 W	2.160		!	-!	<del> </del>		
		ne .	Integ	rated P	_ ower (Inst	ru) <u>4</u> ,	1 Kw )	Mins

Time above 350°C NONE Integrat	ed Power (Instru) 4.1 Kw Mins
Duration of Operation & LAINS Integrat	ed Power (Sulfur)
Remarks No Cooling " B	" Tower Notified   buy buy @ 1650
Remarks No Cooling "B Operator (sign) Mc Juya Supervis	or (sign) Lewell & Farul
STECS-NE Form 402, 1 Oct 89 (Previous ed	itions of this form are obsolete)

Operation	No	. 55	92-	236
•				

(1611360	. 1 000 0	-,		Da	te 25 AU	5 92
Experiment X	20-8	<b>5</b>	Approva	TPC	12-92 5-92 Dosime	etry ON ERP
Exp. Location	135 M	ETERS	Dist to	RX C/L	/35 m. EXI	INSP BY KED
RHD Track # _	e Heigh	tMAX V	Dist to	Bldg Ct	T MAX DUFRHI	INSP BY HSD
					ty tube <mark>oル</mark> RX	
RX Operator	DRH	_ HP Ope	rator _	DCI	RX Superviso	or #6D
RX Console Che	eck	HP Con	sole Che	ck 🖊	Log Book Rev	riewed
Clearance #	52	_ APRF A	rea Chec	ked 🗾	_ Keys Account	ed For
REMARKS: Ro.	SPEC	@ /	35 M	ETER		
Reactor Power					MILL PULL	SS PP
Linear Level	38 F	lange	10-6	Durati	lon: 6015	3600 teecs)
1/e Level	LOCAL	tange	10-6	Estima	ted Peak Temper	rature =/00°C
	TIME:	1,	<sup>1e</sup> 094	622	Shutdown //C	522
Time	094822	110523				
Linear Level	38	_			72	
Linear Range	10-6				105-	
Log N	.8			i	094625	
T/C # 7	29,0	44.6		   	77	
T/C #8	28.3			   	1 4740	
SB	11.582	_				79 MWS
MAR	5.102			. 	 	-1,5W
RR		2.542			l 	
RX Power	loow		 	l I	 	
Time above 35	0°c No	NE	Integ	rated Po	wer (Instru) 7	9 KW. MINS
Duration of O	peration	79 MIL	<b>I</b> Integ	rated Po	wer (Sulfur)	
Remarks No						J/A
					ign) Albul	U
STECS-NE Form 402, 1 Oct 89 (Previous editions of this form are obsolete)						

APRE STE				U	peration N	0. 00 / 0	
(revise	d 1 Oct	89)		D	ate 25	Aug 97	
Experiment_X	(20-8	5	Approv	al Tre	5-92	Dosimetry <u></u>	N ERM
	Exp. Location 400 METERS Dist to RX C/L 450 M. EXP INSP BY HED						
RHD Track # _	6 Heig	ht UP	Dist to	o Bldg C	tr MALO	T RHD INSP	BY HSD
Rx Core 5	B_GHL_	SN_B10	Shield S	<b>≤</b> ► Safe	ty tube 🔼	NX. INSP	by Hod
RX Operator _	DRH	HP Ope	erator _	Der	RX Supe	ervisor #	(D)
RX Console Ch	eck 🖊	HP Cor	nsole Ch	eck	_ Log Boo	ok Reviewed	~
Clearance # _	52	APRF A	Area Chec	cked	_ Keys Ac	counted For	<u> </u>
REMARKS: R	ospec	-0	100 M	1			
			•				
Reactor Power				)	Reactor M	lode : 🔢	PP
Linear Level	38	Range 3	K /0-5	Durat	MIN.	FOR DAT	77A secs)
1/e Level	14	Range <u>3</u>	X 10'5	Estima	ated Peak T	[emperature_	<250°C
					Shutdowr		••••
Time					<u> </u>		
	1308-4						
Linear Level	38			_	 		
Linear Range	3x10-5				1421-	Y	·
Log N	26				1386	<u>'</u>	
T/C # 7	56	162.1			1;15		
T/C #8	53				13		
SB		150,4			1 225 K	W-MINE	
MAR	11.583	İİ			l 1		
RR	5.549				İ		
	1.850	3,412			<u> </u>	· · ·	
RX Power	3KW	 			! 	····	
Time above 350°C NoNS Integrated Power (Instru) 225 KW MINS							
Duration of Operation 75 MIN SIntegrated Power (Sulfur)							
Remarks COOLING ON "B" Tower Notified N/A							
Operator (sign	1) Old	Hand	Superv	isor (s	lgn) #	Dubyook	
STECS-NE Form 402, 1 Oct 89 (Previous editions of this form are obsolete)							

Time above 350 °C NONE Integrated Power (Instru) 90 KW-MW
Duration of Operation 30 MIN Integrated Power (Sulfur)
Remarks Cooling ON "B" Tower Notified Yes
Operator (sign) DX. Supervisor (sign) As walyoski
STECS-NE Form 402. 1 Oct 89 (Previous editions of this form are obsolete)

APRF	ST	EAD	Y	STAT	E	LOG
(rev	is	ed	1	Oct	89	)

APRE STEADY STATE LOG	Operation No. <u>33 92-235</u>				
(revised 1 Oct 89)	Date 26 AIR 92				
Experiment X2c - 85	Date 26 AUG 92 TPC 12-92 Approval TPC 5-92 Dosimetry BN EXP.				
Exp. Location 400 METERS	Dist to RX C/L 400 M EXP INSP BY Det				
RHD Track # 6 Height MAX (	op Dist to Bldg Ctr MAXOURHD INSP BY DRIN				
Rx Core 53 GHL OV B1	0 Shield ON Safety tube ON RX. INSP BY DRH				
RX Operator MCG HP Operator DCM RX Supervisor DRH					
	onsole Check Log Book Reviewed				
	Area Checked Keys Accounted For				
REMARKS: ROSPEC @ 4	W METERS				
Reactor Power Level Required	500 JATES /KW Reactor Mode : (SS) PP				
Linear Level Range	3X/Out Duration: MIN. FOR DATA secs)				
1/e Level 2 kange	Estimated Peak Temperature - 270 C				
TIME:	1/e /005 42 Shutdown /205 42				
Time   //007 42   /205 4	<u> </u>				
Linear Level 38					
Linear Range 10-5					
Log N 8.5					
T/C # 7 34.0 210.5	.				
T/C #8 33.0 206.8					
11.582					
MAR 5.350					
1.850 4.914					
RX Power IKW					
Time above 350°C NONE Integrated Power (Instru) 120.0 Km Mins					
Duration of Operation 2 He5 Integrated Power (Sulfur)					
Remarks No Coo Line "B" Tower Notified / V/A					
Operator (sign) MC Juy	Supervisor (sign)				
STECS-NE Form 402, 1 Oct 89 (	Previous editions of this form are obsolete)				

	ADY STATE			•	_	5592-25	<u>Y-</u>
(revise	TPC 12-92						
		_		TPC	12-92		100
						simetry ON	
Exp. Location	450 M	ETERS	Dist to	RX C/L	450 M	EXP INSP BY	DRIA
RHD Track # _	6 Heigh	t MAXU	Dist to	Bldg Ct	T MAY DUT	RHD INSP BY	DICIO
						RX. INSP BY J	DV514
						risor DRH	
	_					Reviewed	
Clearance # _	51	_ APRF A	rea Checl	ked	_ Keys Acco	ounted For	
REMARKS: REMARKS	spec	@ #	#KKAA	450	neters	US/CA	•
			، ما سم ا			<u> </u>	
			•			le: (SS) PP FOR DATE	ń
Linear Level	<u>57</u> R	ange	10-5	Durati	on:	nins(	secs)
1/e Level	21 R	ange/	0-3	Estima	ted Peak Tem	nins(	20°C
	TIME:	1/	e /338	54	Shutdown	1456 54	
Time	134034	1456 54					
Linear Level	57						
Linear Range	10-5		i		1+56.54	78	
Log N	13		i		1338 5 1	- 1.5 - 390	<del></del>
T/C # 7	44.0	100.7	i		1:18	18	
T/C #8	43.0	93.9	<u> </u>				
SB	11.586						
MAR	5.250						
RR	2.300	3,030	i			•	
RX Power	1.5 KW		i				
Time above 350°C NONE Integrated Power (Instru) 17.0 Kw Mins							
Duration of O						•	1145-
Remarks Coc	ling of	Vorke	· "	B " To	ver Notified	Burke &	1428
Operator (sig	n) MC	Gergi	_ Superv	isor (s	lgn)	tairell	<del> </del>
STECS-NE Form 402, 1 Oct 89 (Previous editions of this form are obsolete)							

APRF STEADY STATE LOG 450 metus Operation No. 5592-235
Date 27 Aug 92
Experiment X20-85 Approval TPC 12-92 Dosimetry ON EXP.
Exp. Location 450 METERS Dist to RX C/L 40 M EXP INSP BY DRA
RHD Track # 6 Height MAXUP Dist to Bldg Ctr MAX OU TRHD INSP BY DRH
Rx Core 58 GHL N B10 Shield N Safety tube ON RX. INSP BY DRIE
RX Operator MCC HP Operator DCM RX Supervisor DRH
RX Console Check HP Console Check Log Book Reviewed
Clearance # 56 APRF Area Checked Keys Accounted For
REMARKS: METERS BYS & Germanius
US/CAO9 detatos
Reactor Power Level Required 1.5 KW Reactor Mode : SS PP
Linear Level 57 Range 10-5 Duration: MIN. FOR DATA secs)
1/e Level 21 Range 10-5 Estimated Peak Temperature 250°C
TIME: 1/e 095/20 Shutdown /10320
Time 10953 20 1/03 07 1
Linear Level 57
Linear Range 10-5
Log N / 13
T/C # 7 38.0 98.9
36.0 92.6
SB 11.582
MAR 4,930
2.800 3520
RX Power (.5 KW)
Time above 350°C NoNC Integrated Power (Instru) 108.0 Kw Mins
Duration of Operation 72 MINS Integrated Power (Sulfur)
Remarks Cooling W/O Vones "B" Tower Notified N/A
Operator (sign) Mc Lugin Supervisor (sign) Whatell
V  STECS_NE Form AD2 1 Oct 89 (Previous editions of this form are obsolete)

APRF STEADY STA		Operatio	n No. 5592-236
(revised 1 Oct US	: 89) /CAN.	Date 2	7 AUG 92
Experiment X20	-85 Approv		72 72 Dosimetry On Exp
			nehrcexp insp by AFC
RHD Track # _ 6 Hei	ight MAXUP Dist to	Bldg Ctr MA	ROUT RHD INSP BY HFC
Rx Core 5B GHI	On_B10 Shield_	On Safety tube	en RX. INSP BY HFC
RX Operator MC	6 HP Operator _	DEM RX	Supervisor HFC
RX Console Check	✓ HP Console Che	eck log	Book Reviewed
Clearance # 56	APRF Area Chec	cked Key	s Accounted For
REMARKS: US Re	ospec, Bf3,	BgO	
	+ Bf3, Bg0		
Reactor Power Level	Required 500 L	na Hs React	or Mode : (SS) PP
Linear Level 63	Range $3\times10^{-6}$	Duration:	MIN FOR DATA mins(secs)
1/e Level <u>23</u>	Range 3x10-6	Estimated Pe	ak Temperature 4 150°C
TIP	1E: 1/e /253	45 Shut	down 1411 45
Time 1/255	15 141 45		
Linear Level 63			
Linear Range   3x/o	6		
Log N 4,5			
T/C # 7 42.7	- i		
T/C 48 .1	107.8		
SB 11.59			
MAR 4,80			
RR 3.150			•
RX Power 500 Wa			
Time above 350°C	Nore Integr	rated Power (In	stru) 39.0 Kw Mins
Duration of Operation	on 78 Mins Integr	rated Power (Su	lfur)
Remarks Cooling .	FF	B " Tower Not	10 2
Operator (sign) MC	Sugir Super	visor (sign) <u></u>	Howy
	V On A Providence	additions of th	is form are obsolete)

	EADY STAT			•	Operation No. $5592-237$
(revise	ed 1 Oct	89) <i>V</i>	S/CAN	1	Date _ 27 Aug 92
					Date 27 Aug 92 5-92 Dosimetry ON EXP.
Exp. Location	300	ups	Dist t	o RX C/I	L 300 mefer EXP INSP BY HFC
RHD Track #	6 Heig	the My. 4	Dist t	o Bldg (	Ctr Myc. out RHD INSP BY HEC
					ety tube ON RX. INSP BY HEC
RX Operator	McG	нр ор	erator _	DCM	RX Supervisor AFC
RX Console Ch	neck	HP Co	nsole Ch	eck	Log Book Reviewed
Clearance # _	56	APRF	Area Che	cked	Keys Accounted For
REMARKS:	15/CA	N @	same	setup	as # 236
Reactor Power	Level R	equired	50 c	ne Hs	Reactor Mode : S PP
					ion: 30 mins( /800 secs)
					ated Peak Temperature = 100°C
					Shutdown /5/7 ()
Time	1500-9	1517 1		!	!
Linear Level	63	1717		[	
Linear Range				[   	
Log N	0.43				
T/C # 7	i	830		! !	
T/C #8 ·	85.7	83.2		! !	
SB	11.586		-	!	
MAR	4449				
RR		4.308	-	 	
RX Power	50 W	4.50			
Time above 350	'	ne	Integ	rated Po	Wer (Instru) 0 95 K~ 11
Duration of O	peration	19 Min.	<u> </u>	rated Por	wer (Sulfur)
Remarks	10 Cool	ing		B " To	wer Notified Burk @ 1520
Operator (sign	n) MC	Duyi			
STECS-NE Form	402, 1 0	ct 89 (P	revious	editions	s of this form are obsolete)

(revised 1 oct 89) VS/CA	Date 28 AUG 92
Experiment X 20-85 Approval	TPC 12-92 Dosimetry AN ERP
Exp. Location Thry the Silo Dist to	
RHD Track # 6 Height MAX UP Dist to	Bldg Ctr NAX OUT RHD INSP BY DEH
Rx Core 5B GHL ON B10 Shield O	Safety tube RX. INSP BY DCM
RX Operator HP Operator	
RX Console Check HP Console Chec	k Log Book Reviewed
Clearance # 53 APRF Area Check	ed Keys Accounted For
REMARKS: US/CAN @ ROSPEC	Bfr BgO
Thru the Silo (over)	
Reactor Power Level Required 200 u	·····
Linear Level 76 Range 10-6	
	Estimated Peak Temperature < 70°C
	03 Shutdown //09 03
Time (454 e3   109 o3   Linear Level	
Linear Range	
Log N	13.1
T/C # 7 30.0 59.0	
T/C #8	
SB	
MAR 11.584	
14,820   3,275	
2.880	
RX Power 200 W	
Time above 350°C MNC Integrat	ted Power (Instru) 15.4 Kw Muis
Duration of Operation 77 MINS Integrat	ed Power (Sulfur)
Remarks No Cooling " F	" Tower Notified NA
Operator (sign) MC Juga Supervis	or (sign) Lowell R. Hallell
STECS-NE Form 402, 1 Oct 89 (Previous ed	itions of this form are obsolete)

APRF STEADY STATE LOG (revised 1 Oct 89)		Operation No. <u>5592-239</u> Date <u>31 Aug 92</u> 5-92				
Experiment X20-85	Approval _''	12-92 Dosimetry ON CXP.				
Exp. Location PAST PAD AC	Dist to RX C/I	L (6ver) EXP INSP BY DRH				
		Ctr MAX OVE RHD INSP BY DEN				
Rx Core 53 GHL ON E	10 Shield DN Safe	ety tube ON RX. INSP BY Det				
		M RX Supervisor DRH				
RX Console Check HP	Console Check	Log Book Reviewed				
Clearance # APR REMARKS: ROSPEG		Keys Accounted For				
Reactor Power Level Require		Reactor Mode: (SS) PP  MIN. FOL DATA  tion:secs)				
1/e Level 28 Range	10.7 Estin	nated Peak Temperature <u><!--00</u--></u>				
		Shutdown /557 51				
Time   1/447 <sup>51</sup>   1557	51	!				
Linear Level	-	1422 5 STAKE				
Linear Range   7	_	30 M				
Log N 0.15						
1/C # 7 2b. \(\theta\) 29.5	_	10 w = 38 m 10-7				
1/C #8 26.2 30.	_ ii					
SB //.584		1				
MAR	_					
Y,500	_	-				
3.332 3.39 RX Power	8					
20 W		 				
Time above 350°C None	Integrated Po	ower (Instru) 1,5 Kw Mins				
Ouration of Operation 75/	uin Integrated Po	wer (Sulfur)				
2. 7		wer Notified Ghalfry @ 1600				
perator (sign) Mc Suy	Supervisor (s	ign)				
TECS-NE Form 402, 1 Oct 89 (Previous editions of this form are obsolete)						

APRF STE				0	peration No. 5592-240	
-	d 1 Oct	89)			ate 1 SEPT 92 5-92	
	05/CA	-	A	T/c !	5-92 Declaration ON ESP	
					2-92 Dosimetry ON ETP.	
Exp. Location	700 M	4011/2"	Dist to	RX C/L	700 M 67090EXP INSP BY DE1+	
RHD Track # _	6 Heig	htMAX VA	Dist to	Bldg C	tr MAX OUT RHD INSP BY DRH	
Rx Core	B GHL	DN B10	Shield_G	Safe	ty tube XRX. INSP BY	
RX Operator	DAK	HP Ope	rator _	DCN	A RX Supervisor DRH	
RX Console Ch	eck 🖊	HP Con	sole Che	ck DCA	M Log Book Reviewed	
Clearance # _	52	APRF A	rea Chec	ked	Keys Accounted For	
REMARKS:						
Reactor Power	Level R	equired _	7KW		Reactor Mode : S PP	
Linear Level					ion: 300 mins (secs)	
1/e Level	9.7	Range 10	-4	Estima	ated Peak Temperature	
	TIME	: 1/	e //3:	2 213	Shutdown 151728	
Time	1134	151728	!			
Linear Level	l "	1 1	;			
Linear Range	126.7				1	
Log N	9.3	<u> </u>	i		1477	
	45		¦		4.4 F 00	
T/C # 7	176	13.5	1		180	
T/C #8	67	301			225×7:1575	
SB	11.584		i			
MAR	5,594		i			
RR	2.050					
RX Power		5.560				
	7KW	7kw				
Time above 35	0°C 100	JE	_ Integr	ated Po	wer (Instru) 1575kU-MLV	
Duration of O	peration	225 mid	Integr		wer (Sulfur)	
Remarks Cool	ng On			B " Tot	wer Notified Bulk 15/18	
Operator (sign	n)_O_x	ul_	_ Superv	isor (s	ign) Dowell K. Harul	
STECS-NE Form 402, 1 Oct 89 (Previous editions of this form are obsolete)						

APRF STE	ADY STAT	E LOG		C	peration No. SS 9	2-241
(revised 1 Oct 89) US/CA						
		_		TPC	STL SEPT	
Experiment $X$	(20.8	5	Approv	al TPC	12-9- Dosimetry	ON EX
Exp. Location	700 /	METERS	Dist t	o RX C/L	700 M. EXP IN	SP BY DILL
RHD Track # _	6 Heig	ht Max U	Dist t	o Bldg C	tr MAX OUTRHD IN	sp by <b>Dek</b>
Rx Core 5	B_GHL_	OU B10	Shield_	Safe	ty tube ON RX. IN	SP BY DUH
RX Operator _	DAK	HP Ope	rator _	DCA	$m{1}$ RX Supervisor $m{J}$	ort
RX Console Ch	eck	HP Con	sole Ch	eck DC	∠ Log Book Review	ed
Clearance # _	52	_ APRF A	rea Che	cked 🔽	Keys Accounted	For
REMARKS: CA	PANE	@ 7	00 M			
Reactor Power	Level R	equired _	7 Ku	<u></u>	Reactor Mode : (S	PP
					MIN FOR PATA	
			• • •		ated Peak Temperatu	
	TIME	: 1/	e 054	9 06	Shutdown 1349	0,0
Time	09510		-		1/0 095	14
inear Level					# 2 Lnear	1x10-4
inear Range	26.7	267				5.7 X10-4
	10-4	10-4		<u> </u>	FFM2 /1	25×10-1
Log N	47	<u> ۲</u> ۷		 	l 	
T/C # 7	69	3028		 	 	
C/C #8 -	62	288.1		] 	240 MIN	
ВВ	11.584	11.514			7 KW	
S.601	6.096	5,601				
RR	1.850	5.430				
X Power	7KW	7KW				
ime above 350			Inter	nted Do	ver (Instru) II. RAV.	S. mar. al
uration of Operation 240mm Integrated Power (Sulfur)						
_		MAJOLA	_ Integr		.1.	12.0
emarks <u>Col</u>	1	<b>A</b> , .	***		ver Notified Hornko	144 1350
perator (sign	0 <u>と))</u>	<u>etis</u>	Superv	isor (si	ign) <b>UMAILE</b>	•

STECS-NE Form 402, 1 Oct 89 (Previous editions of this form are obsolete)

APRF STEA	DY STATE	LOG		Op	eration N	10. <u>55</u>	<u>92-24</u>	2
	1 1 Oct 8	9)				SEPT		
	160 -	Us/c	A	ال مالات	5-72	<u> </u>	250	
Experiment	X 20	85	Approva	1 TKC#	12-92	Dosimetry	on exp	
Exp. Location				,				
RHD Track #3								
Rx Core 50								•
RX Operator								
RX Console Che								
Clearance #	55	_ APRF A	rea Chec	ked	_ Keys A	Accounted	For	
REMARKS:	390	+ TL	DS	RX	Cente	rofb	12 06	
Reactor Power	Level Re	quired _	3 ku	U	Reactor	Mode : S	PP (60)	(2018
Linear Level	<u>38</u> r	ange 3×	(10-3	Durati	on:	mins(	secs	0
1/e Level	<u>14                                    </u>	ange 3	.10-5	Estima	ted Peak	Temperatu	re <u>= 30</u>	0 -
	TIME:	1/	e /3/8	<i>김</i>	Shutdow	m 1418	<u> </u>	
Time	132031	141824				-		
Linear Level	38							
Linear Range	3×10-5				3_			
Log N	20				180			
T/C # 7	46.0	150.9			t			
T/C #8	43.0							
SB	11.583				 			
MAR	4.934	_	•		l 			_
RR	3.100	4.316	· ·			•		
RX Power	3KW							•
Time above 350	o°c No	NE	_ Integr	ated Pov	wer (lnst	ru) <u>3 KW</u> .	Hrs/180KW	MINS
Duration of O							-	
Remarks <u>Co</u>	LING	ON		' B " Tov	wer Notif	ied	21/2	7
Operator (sign	n) 1910	, Dege	_ Superv	visor (s	ign)	wellk.	Haull	
CTECC NE Farm		0				form are	obsolete)	

Operati	on No.	\$5	93-71	
	14			

Experiment	X20-8	5	Approv	al Tres	7 5-92 Dosimetry ON exp	-
Exp. Location	300 ME	TEPL	Dist t	o RX C/L	300 METER EXP INSP BY DEH	
RHD Track # _	6_ Heig	ht Max 1	Dist t	o Bldg C	er MAX ON RHD INSP BY DELL	_
Rx Core 58	GHL_	N B10	Shield_	<i>O</i> √Safe	ty tube ON RX. INSP BY DAH	ļ
RX Operator _	MCF	НР Ор	erator _	DCM	RX Supervisor DR H	-
RX Console Ch	eck	HP Co	nsole Ch	eck	Log Book Reviewed	_
Clearance # _	55	_ APRF	Area Che	cked	Keys Accounted For	_
REMARKS: DA	JA -	DOE	BONA	ens.	PHERES + 2 BF3	_
						_
Reactor Power	Level Re	equired	Iwa Ho	and JOHA	Reactor Mode : (SS) PP	
Linear Level	3 <u>8</u> .	Range 10	-8/10	7 Durati	MIN. For DATA ion: mins(secs	;)
1/e Level	141	Range <u>(</u>	-4/10-	7 Estima	ated Peak Temperature = 100	ه د
					Shutdown/344 49	
Time	124149	130649	1 /308-	1344	<u> </u>	•
Linear Level	38	/	38			
Linear Range		/	10-7		@ /watt	
Log N	0.009		0.09		C 10 walls	
T/C # 7	22.1	27 4	22.8	!		
T/C #8	22.0			24.2		•
SB	11.587					
MAR	4.017	/	4.417			
RR		4.051	3.404	2415	, .	
RX Power	lwatt	10 wa 115				
Time above 350	o°c _ <i>W</i>	Ne	Integr	rated Pow	wer (Instru) 407 watt um	
Duration of Op	peration	65 mins	_ Integr	rated Pow	wer (Sulfur)	
Remarks No Cooling "B" Tower Notified NA						
perator (sign) MC Buyi Supervisor (sign) Diffacell						
TECS-NE Form 402, 1 Oct 89 (Previous editions of this form are obsolete)						

Operation	No. 55	93 -	72
Data 14		_	

Experiment >	(20-8	5	Approv	al TPC	5-92	Dosimetr	YON EXP.
Exp. Location	300 /	METER	Dist to	o RX C/L	300 MET	TEYL EXP 1	HNG BY DRH
RHD Track # _	6 Heig	ht MAX U	b Dist to	o Bldg C	tr Max (	OUT RHD 1	HNC BY DRH
Rx Core 53	B_GHL_	B10	Shield_	Safe	ty tube_	M RX. 1	INSP BY DRH
RX Operator _	MCG	- HP Op	erator _	DCM	RX Su	pervisor	DRH
RX Console Ch	eck 🖊	HP Co	nsole Che	eck	_ Log B	ook Revie	wed
Clearance # _	55	APRF	Area Chec	cked	Keys	Accounted	For
REMARKS: DA			1/ 65				
Reactor Power	Level R	equired	20 W,	1777	Reactor	Mode :	G PP
Linear Level					MINI	Fon T	DATA
							ure =/00°C
						wn 1635	
Time	35	1635			<u> </u>	. 60	
Linear Level	1	<u>/635</u>			1639	435	
Linear Range	76				1:0	0 25	
	16-7					.4 MIN.	
Log N	1.8					20 WAT	T-MINS
T/C # 7	26.6	30.0		.;	120	9 8.º WAI	T-MIO2
T/C #8 ·	27.2	30.4					
SB	11.599						
MAR	4.904						N
RR	2.650	2 47 0	!	,			
RX Power	20 mays	(.818				<del></del>	
Time above 35	'	one	Integr	ated Pov	er (Insti	ru) 🛍	1.2 Kur.n
Duration of O							
Remarks					•		lonne @ 1637
Operator (sig					<b>/</b> \		ell
STECS-NE Form		•					obsolete)

Date 15 JUN 93

Experiment X20-85 Approval TPC 5-92 Dosimetry ON EXPS.
Exp. Location See Romarka Dist to RX C/L See Romarke EXP INSP BY DRH
RHD Track # 6 Height MAX UP Dist to Bldg Ctr MAX OUT RHD INSP BY DRH
Rx Core 5B GHL ON BIO Shield ON Safety tube N RX. INSP BY DAY
RX Operator MCG HP Operator DCM RX Supervisor Dr.H
RX Console Check HP Console Check Log Book Reviewed
Clearance # 5/ APRF Area Checked Keys Accounted For  REMARKS: ROSPEC, 12D, GERMANIUM 1.C. 300, 700, 411 GATE)
AU FOILS IN FRENCH 170, * GHL PLugged
Reactor Power Level Required   KW   Reactor Mode : (SS) PP
Linear Level 38 Range 10-5 Duration: 60 mins( 3600 secs)
1/e Level 14 Range 10-5 Estimated Peak Temperature 250°C
TIME: 1/e /02 4 38 Shutdown / 124 38
Time   1/026   1/2 4 38
Linear Level 38
Linear Range 10-5
Log N 9
T/C # 7   29.7   69.0
T/C #8 28.7 63.7
SB ///.587
MAR 4.476
RR 3.412 3.794
RX'Power IKW
Time above 350°C NoNe Integrated Power (Instru) 60 Kw Mins
Duration of Operation         Integrated Power (Sulfur)
Remarks Cooling On "B" Tower Notified NA
Operator (sign) MC Supervisor (sign) Manuel
STECS-NE Form 402. 1 Oct 89 (Previous editions of this form are obsolete)

Date 15 JUN 93

		~~			= 0 = 0 = 1 = 1			
					5-92 Dosimetry ON EXP.			
Exp. Location VARIOUS Dist to RX C/L See Remarks EXP INSP BY H6D								
RHD Track # _	He i g	MAX UP	Dist to	o Bldg C	tr MAX OUT RHD INSP BY HGD			
Rx Core 5	B GHL	N BIO	Shield	Safe	ty tube ON RX. INSP BY H6D			
RX Operator S	DRH	HP Ope	rator _	DCM	RX Supervisor <u>H6D</u>			
RX Console Ch	eck	HP Con	sole Ch	eck	Log Book Reviewed			
Clearance # _	51	APRF A	rea Che	cked 🖊	Keys Accounted For			
REMARKS: DA	IA/DO	DE @	2 K	ma -	+ 5593-73 SETUP			
EXCEP	T FOR	L ROS	PEC	<b>-</b>				
					Weactor Mode : SS PP			
					MIN. FOR DATA on:mins(secs)			
			_		ated Peak Temperature = 320°C			
	53 min	s '_1b	12/2	200	Shutdown 16/146			
Time	1214	1305 14			Fretier 201			
Linear Level	30	28.5		186476				
Linear Range	10-19			1212 16	#2 52%			
Log N	75			-5.2	#3 54%			
T/C # 7		217 1		1305 16	PPM#1 6.6x10.4			
T/C #8		318,6	-	2:66 30	#2 1.45×10-4			
SB	6910	278.0		3:06/2				
MAR	1.590			186.5	LIN#2 1.1X10-4			
RR	2,238			 	#3 7.9×10-6			
RX Power		6.290			53 MINS @ 8KW = 424			
KA TOWEL	8kw	7,5 KW			53 MINS @ 8KW = 424 186.5 " @ 7.5KW = 1398.75			
Time above 350°C NONE Integrated Power (Instru) 1823 KW-MINS								
Duration of Op	peration	239,5 M	Integr	rated Pow	er (Sulfur)			
Remarks COOCING DN "B" Tower Notified WARD								
Operator (sign	1)	Mand	Superv	visor (si	gn) Druhyoski			
STECS-NE Form	402, 1 0	ct 89 (Pr	evious	editions	of this form are obsolete)			

Experiment_X	20 - 8	5	Approv	al TPC	5-92	Dosimetry	ON EXP.
Exp. Location	VARRO	US.	Dist to	RX C/L	VARIOUS	EXP II	isp by <i>Drit</i>
RHD Track # _	6 Hear	REMAX U	Dist to	Bldg C	tr MAX 00	RHD II	isp by <b>Juh</b>
Rx Core 53	B GHL	PE BIO	/ Shield_	Safe	ty tube 0	N RX. II	ISP BY DILL
RX Operator _	DAK	HP Ope	rator _	DCM	RX Su	pervisor	DRH
RX Console Che	eck <u>V</u>	HP Con	sole Ch	eck	Log B	ook Reviev	ved
Clearance #	53	APRF A	rea Che	cked	Keys	Accounted	For
REMARKS: DNA	DOE	@ VA	2005	POSITIO	ONS /L	SIDE	AND
OUTSID &	13	372 M	ARE	PA_			
Reactor Power					Reactor	Mode :	S PP
Linear Level _					1.4	W FOR T	ATA secs)
1/e Level							
	TIME	: 1/	e บๆน	35	Shutdo	wn  133	00_
Time	10925	113300			1		
Linear Level		27.8			11376	Ð	
Linear Range	10-4	10-4			0925	<u>s</u>	
Log N	70	<u>'</u>		 	2:07	2.5	
T/C # 7	¦	68		 		17	
T/C #8	75	317,6		 		17 MIN=	•
SB	67	2957			-	5 KW	
MAR	11.588			ļ	955	6 KW-	MINS
	5.524			<u> </u>	<u> </u>		
RR	2.250	5.732		 	 		
RX Power	7.5KW	 		 	 		
Time above 35			_ Integ	rated Po	wer (Inst	ru) 955,	6 KW-mid
Duration of O	peration	127 25"	_ Integ	rated Po	wer (Sulf	ur)	7.
Remarks Coolin	101			" B " To	wer Notif	ied N/	<u>^</u>
Operator (sign) Nul Supervisor (sign) Whavel							
STECS-NE Form 402, 1 Oct 89 (Previous editions of this form are obsolete)							
				125			

Operation	No. 55	93-	-76
Data 17	Din	93	

				_						
						metry ON EXP				
Exp. Location VARIOUS Dist to RX C/L VARIOUS EXP INSP BY HCD										
RHD Track # _	RHD Track # 6 Height 40 1/2 Dist to Bldg Ctr 149 10 RHD INSP BY HCD									
Rx Core5	B_GHL_	1N B10	Shield_	<u>ON</u> Safe	ty tube ON F	ex. Insp by <u>HGD</u>				
RX Operator _	MCG	HP Op	erator _	DCM	RX Supervi	sor HGD				
RX Console Check HP Console Check Log Book Reviewed										
						inted For				
REMARKS: DN	ADOE	@ 1	ARIOUS	POSITI	ONS INSIDE	F AND OUTSDE				
1372	M AR	EA -	EQUIP	MEUT :	@DOSIMETRY	ONLY				
Reactor Power	Level R	equired	7.5 K	W_	Reactor Mode	: SS PP				
Linear Level	28.5	Range	10-4	Durat	ion:mi	ns(secs)				
l/e Level	10.5	Range /	0-4	Estim	ated Peak Temp	erature = 322°C				
	TIME	1,	1e 0915	-57	Shutdown 1	202 27				
Time	109/7	1202								
Linear Level	28.5	27.4 9	195		FLux	Temp.				
Linear Range					#1 55	578				
Log N	72				#7 53  #2 48	580				
T/C # 7		319.5			#3 48	318				
T/C #8	. — —	295.5			LN#2 1.5x					
SB	11.589	ا د ا			LN#3 7.43 ×					
MAR	5.813				PM#1 6.38×10					
RR	1.900				PM#2 1.40 x /					
RX Power	7.5KW	/								
Time above 35	o°c N	one/	Integi	ated Pov	wer (Instru)	248.8 Kw Mins				
<i>)) </i>  Duration of 0	peration	9990 sec	<u>S</u> Integr	ated Pov	wer (Sulfur)					
Remarks (o	olius O	V		B " Tov	wer Notified	N/A				
Operator (sign	a) MC	Jugi.	_ Superv	isor (si	Ign) HYA	ribjoski				
STECS-NE Form	402, 1 0 wer al 7.5 kw	et 89 (F	revious 4 KW. 7.4KW	editions DECKER # Hen 7	s of this form SED OVER RI 7.3KW TO Stay	are obsolete) IN AFTER ABOUT Willin temp limits				

Fynariment	V-20.	-85	Annrow	I TPO	5-9	Z- Dosimetry C	MIERP
						US EXP INSP	
		,	1/1/			10 "RHD INSP	
		_					
		•		_		OPRX. INSP	
		/				Supervisor <u>H</u>	
RX Console C	heck	HP Co	onsole Ch	eck	Log	Book Reviewed	
Clearance #	53	APRF	Area Che	cked <u>V</u>	Keys	Accounted Fo	r
remarks: SA	ME A	5 55	593-7	6 EXC	EPT M	OUED FROM	2KM
	TION						
Reactor Power	Level R	lequired	7.5	KW	Reacto	r Mode : (SS) N FOR DATA mins(	PP
Linear Level	28.5	Range	10-4	Durat	ion:	N FOR DATA mins(	secs)
1/e Level	10.5	Range	10-4	Estima	ated Pea	k Temperature	£322°C
						own 1642 08	
Time					<u> </u>		
Linear Leveh	1253	1642 - 1642 - 1 27.4 3	92		į		
Linear Level		1			<u> </u>		
	10-4		!!		Flux ?	y Tempo	
Log N	72		 	#1	56	575	
T/C # 7	85.3	317.6	 	#2	49	580	
T/C #8	77.5	301.7	!   []	#3	50	330	
SB	11.594	/	] ·		DM#/ (	6.2×104	
MAR	4.944	/				1.4 × 104	
RR	3.343	7.110				1.5 × 104	
RX Power	7.5K.		!			7.41 × 106	
m. 1 25		·	·	,			(0 K /-
Time above 35						ru) 1730.4	O KWMIAS
Duration of O				_		0 .1	
Remarks <u>Co</u>							
Operator (sign	n) M I	uj	_ Superv	isor (si	gn)	H Duby	ski
STECS-NE FORM * NOTE! Reduct Pour 1							

APRF STEADY STATE LOG (revised 1 Oct 89) Operation No. <u>SS93 - 78</u>

Date 23 JUN 93

	•				_						
	Experiment_X	20-85		Appro	Approval TPC 5-92 Dosimetry ON EXP						
	Exp. Location	Exp. Location 170 METERS Dist to RX C/L 170 METERSEXP INSP BY DRH									
	RHD Track # _	RHD Track # 3 Height 20 LIMIT Dist to Bldg Ctr CTT RHD INSP BY DRH									
	Rx Core 5 B GHL ON B10 Shield ON Safety tube ON RX. INSP BY DRH										
	RX Operator MCG HP Operator DCM RX Supervisor DCH										
	RX Console Check HP Console Check Log Book Reviewed										
	Clearance # 51 APRF Area Checked _ Keys Accounted For										
	REMARKS: DNA										
fower Levels	100 watts, 1kw, 2kw, 4kw, 8kW										
220005	Reactor Power				· - <u></u>	Reactor	Mode :	SS PP			
	Linear Level	F	Range		Durat	ا سرام ion:	con Datmins(_	secs)			
	1/e Level	F	Range		Estima	ated Peak	Temperat	ure 5 30°C			
	TIME: 1/e/04/5 Shutdown 1046 5 /C 51										
	Time	1041256	1043	1/044	1 300 56	480 sec	570 see	20 /06w			
	Linear Level	756	38	76	51	30.		100 1 km 200 2 km			
	Linear Range		10-5	10.5	3×10-5			3,5@ Y K			
•	Log N		9	19	40	80		-/130			
	T/C # 7		   		57		113,0				
	T/C #8 ·				53		104.0				
	SB	11.586					707.0				
	MAR =	1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			4.580	4.527-					
	RR	2, 254 ···		P der	3.585	4,200					
	RX Power	100 W	160	2KW	4KW	8KN	SHUTDOW	in)			
	Time above 35		ne	Integ	rated Pos	ver (Inst	31, ru) +5.	- Fw Mins			
	Duration of O	,									
	Remarks				•	_	led N/A				
	Operator (sig		.//			<i>^</i>	A/I				
	STECS-NE Form		•					obsolete)			

APRF STEADY STATE LOG (revised 1 Oct 89) Operation No. <u>SS93-79</u>

Date <u>Z3</u> Jun 93

Experiment X	20-85		Approv	1TPCS	5-92	Dosimetr	YON EXP.		
Exp. Location	170 N	BTERS	Dist to	RX C/L	176 MOTO	EXP I	nsp by Deh		
RHD Track # _	3 Heigh	t 20 LIMIN	Dist to	Bldg Ct	r CTT	RHD I	nsp by <u>Dah</u>		
Rx Core 57	GHL	B10	Shield 0	Safet	ty tube 🕹	N RX. I	NSP BY DAN		
RX Operator DAK HP Operator DCM RX Supervisor Det									
RX Console Check HP Console Check Log Book Reviewed									
Clearance # _	Clearance # 51 APRF Area Checked Keys Accounted For								
REMARKS: DN	A			· ,	0				
loo w	16.0	2×11	4 4	1 8KL	J				
100 W				2					
Reactor Power	Level Re	quired			Reactor	Mode : (	SS) PP		
Linear Level	R	ange		Durati	lon:	mins(_	secs)		
1/e Level	P	ange		Estima	ated Peak	Temperat	ure		
	TIME:	1/	'e 1/5°	39	Shutdov	vn IZ	1609		
Time	1201391	120239	120639	120939	121439	121699			
Linear Level	1			51					
Linear Range	10-6	10-5				1			
Log N				39					
T/C # 7	63.8			121	169	•			
T/C #8	63,6			114	158				
SB	11593		17	_		ل غار خ			
MAR	5,818	5,440		5410		f•			
RR	1550	2,600		3,050	3,850				
RX Power	/00 ω	1 kw	2 FW		8KW	Shuldre	n		
Time above 35		E			wer (Inst	42.	3 rkb-mw		
Duration of O	peration	17 MIN	_ Integ	rated Po	wer (Sulf	ur)			
Remarks Cool	ny Off	1		" B " To	wer Notif	ied No	10		
Operator (sig	n)-DYu		Super	visor (s	ign) _	Marie			
CTECC NE E	602 1 C	10+ 80 (I	routous	editions	of this	form are	obsolete)		

Experiment X	20 - 8	5	Approv	al TPG	5-92	Dosimetry &	NERP.
Exp. Location			_				
RHD Track # _					16'0"		
Rx Core	P PL	166EZ	Dist	Al a c		_ KID INSI	DI PEN
					_	_	
RX Operator $\underline{\mathcal{I}}$							
RX Console Ch	eck	HP Co	onsole Ch	eck	Log Boo	ok Reviewed	
Clearance # _	51	APRF	Area Che	cked	Keys A	counted For	
REMARKS: Dん	IA						
Reactor Power	Level R	eguired	4K	W	Reactor N	1ode : _ <b>(</b> 3)	PP
Linear Level						mins( 36	
1/e Level						[emperature	
	TIME			27 1	Shucdown	15 27	
Time	1430	15274		 	 		
Linear Level	51	-			j I		
Linear Range	3×10-5						
Log N	40				!	****	
T/C # 7	61	102	.				
T/C #8	1 .	193			I		
SB	56	180	<u> </u>	<u> </u>	ļ		
1AR	11.595		ļ	<u> </u>			
	4.516		ļ	İ	1 1		
RR	3.675	5.372	,  	l	i i	-	
CX Power	4KW	4KW		1	<b> </b> 	•	
Time above 350	_	NE	Integ	rated Po	wer (Instru	) 240 KW-	MW
Ouration of Op	eration	60 m12	Integ	rated Po	wer (Sulfur	·)	
Remarks Coolin	ho c			" B " To	, wer Notifie	d Has M	Corres
perator (sign	i) DX	J	Super	visor (s	ign) _	HAMLER	·
TECS-NE Form	402. 1.0	ot 89 (1	Previous	editions	s of this f	orm are obs	olete)

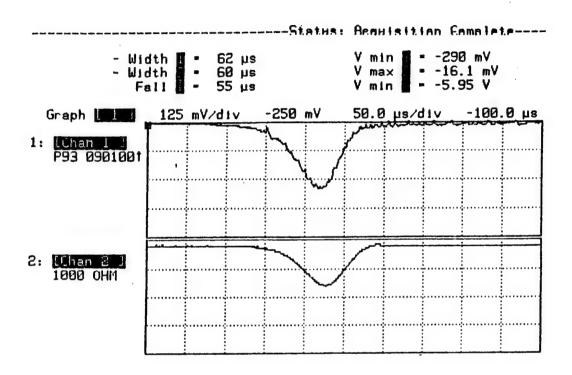
APRF STE	ADY STATI	E LOG		O	perati	lon No. S	s 93 - E	91
(revise	d 1 Oct 8	39)		Ď	ate	6-25	-93	
Experiment	120-8- 4 ANGLO	<u> </u>	Approva	al TPC	5-9	2 Dosime	try ON	EXP
Exp. Location	20 4 40 ON TO T	FT HORIZ	Dist to	RX C/L	≈ 3c′	+45' EXP	INSP BY	DSH
RHD Track # _	3 Heigh	nt 20'LIM	NDist to	Bldg C	tr _C	'O" RHD	INSP BY	DRH
Rx Core 58	GHL_	0 N B10	Shield_C	y Safe	ty tub	RX.	INSP BY	Dan
RX Operator	DAK	HP Ope	erator _	Dicm	_ R3	K Superviso	r DRH	
RX Console Ch	eck 🖊	HP Cor	nsole Che	eck Dc.	<u> </u>	g Book Rev	iewed	
Clearance #	55	_ APRF A	rea Che	~~~~~		ys Account	ed For	•
REMARKS: 2 K	enuall-w.	FOR	1206	Rx 1/20	, <u>'</u>	4e'	01	VER->
				× 1200				
Reactor Power	Level Re	equired _	8KW		Reac	tor Mode :	(SS)	PP
Linear Level	30,4 F	Range 1	P-01 K	Durat	lon: 🗲	<b>≥0 \</b> 5_mins	(900	secs)
1/e Level	11,2	lange 1	×10-4	Estima	ated F	eak Temper	ature_	<u>320</u> 8
	TIME:	1/	'e 115	657	Shu	itdown	21157	
Time	11585	12.81			   			
Linear Level	30,4				' 			
Linear Range	10-4				! !			
Log N	70				}   	•		· · · · · · · · · · · · · · · · · · ·
T/C # 7	68	248			!   			
T/C #8	58	226			   	***		
SB	11.596				   			
MAR	5.5847	4.982						
RR	3,000	5.212		,	! 			
RX Power	8KW				¦   			
Time above 350	o o MON	E	Integ	rated Po	wer (1	instru) 2	0 KW-	-mw
Duration of Op	peration	15 Min	Integr	cated Por	wer (S	Sulfur)		
Remarks Coolin	on w/	Untext	100°C-	' B " To	, wer No		9.71	15
Operator (sign	1) \( \sum_{1} \)	Leel	_ Superv	visor (s	ign) _	Mount	ull_	
STECS-NE Form	402, 1 0	ct 89 (F	revious	editions	s of t	his form a	re obsol	ete)

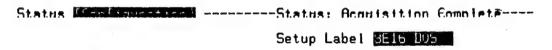
APRF	PUI	SI	3 1	<b>LOG</b>
(revi	sed	1	Oct	89)

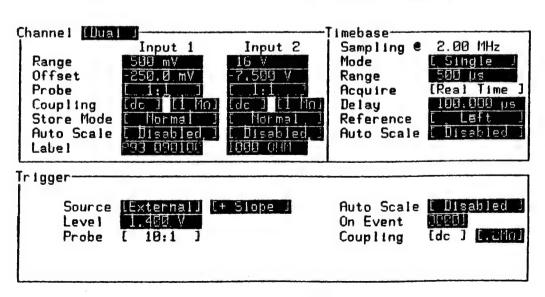
Pulse	No.	P93	- BANK
		-	

Experiment 20' D65. AT SMALL ROLLUP D	proval HOD	DRH Dosimetry_	ON EXP.
SMALL ROLL UP	ook Dy C/I 17	O AA EXP INS	P BY DOH
Evn Location / /U /V		7/1 - 41	
RHD Track # 3 Height 20 Limito	ist to Bldg Ctr	CTT RHD INS	PRY DOL
By Core 5B GHLON B10 Shield	d by Safety Tu	be on RX. INS	- A14
RX Operator DAK HP Opera	tor DCM	RX Supervisor	
RX Console Check HP Conso	le Check	Log Book Review	for V
Clearance Requested APRF Are	a Checked	Keys Accounted	· 2004-170
REMARKS: X 20 - 85 DNA J	DOSIMETRY-	Y DEVECTOR	ATUBOR!
Yield 8,1 × 10 10 F p 108	c T_	us 61/_	100
Estimated Excess 38 c	PR(+,0,-)	Kinetic Effect	
Time/at DC   0947	Time	0953	
SB	RR Cal	19.074 in	_]]
CRC # 1	RR Pos	5000	
000 # 2	PH # 1	242.7	
Linear # 1 38 x 6 8	ν PH # 2	2395	
Linear # 2	PR Insert	204.0	
Log N	TC # 7	25.2	
TC # 7	TC # 8	2510	
10 # 8	Avg PM's	241.)	
MAR 7,813 1.382 81192	Operator D	AV Supervis	or OM
7.813 1.382 8.192 RR 36.24 5.000	Remarks:		
Excess 37. 65			parametris garante reporter deposits qui tipo (n. 1 h h )
Operator Supervisor PULSE CALCULATION	#		
Avg SMP 91.87 >	108.40		5.000
p Withdrawn 14.30	106.17	RR Correction +	
PR Worth 106.19 An	19.07	S,118 RR Pulse	5.117
Operator DAKe	Supervisor	MHanell	
	A 122	-	

PULSE W	AIT			_
1. Time Safety	Block to	Withdraw		0957
Total Wait	Time	,		25
Calculated	00 22 DAX			
Countdown T	- 5			
Calculated	Time Safet	y Block to I	nsert	10017 BON
2. Temperature	s T-SMP	End of Weit	p change, requir	red /not required
TG 7 1	5.2	25.2	Δ <u>.17</u>	°C
TC 8	25.0	25.0	Rod Withda	rawn To
3. Clearance #	,	51	8. Pulse rod u	nlatched
4. Neutron gen		dy N/A		· . /
	٠,		10. Fire alarm	ready
5. Prompt Weri	•			1017 Dell
6. Pulse HODE	•	· ·		
7. Pular Detec	tion Equip	ready <u> </u>	12. N <sub>2</sub> Trickle of 13. A OMA	enell
PULSE I	ATA		<u> </u>	1022 PI
Temperatures		TC 8	1. Time of Pulse	2:
After PULSE	184.6	164.1	2. Period: PH1	2412 PH2 2410
At EOW	25,2	25,0	3. PR Insert tim	203.3
ΔT	159.4		4. AVE TH'S 24.1	B Alpha 41.5
Sulfur factor	The same of working	139.1	S. Half Width _(	Ouse
Yield	,	5.95	6. Sulfur	
Avg Yleld	8.26	8.28	617/618	1.125 AIC
y a proposity par de talent — "de l'extrement — " l' a c' l'elle. May faut d'ar laige une sept dans paul des faut des sans laine des laines de l'elle.				
fire Alarm Boti	nal	_ "B" Tower	Notified NO-	
Remarks:			ί	
# PD'S o	n IKR			
gue Marannagagan e e regar ya gan i quan e mahingi ne i ne ne gi ana mga nga	and the second second second second second second second second second second second second second second seco		1	



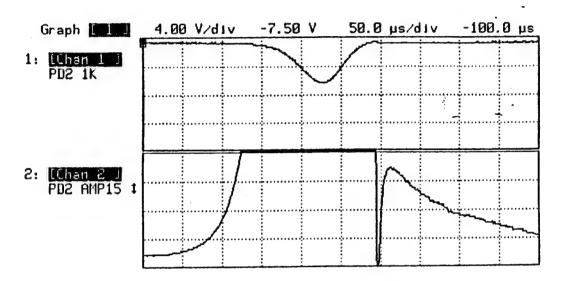


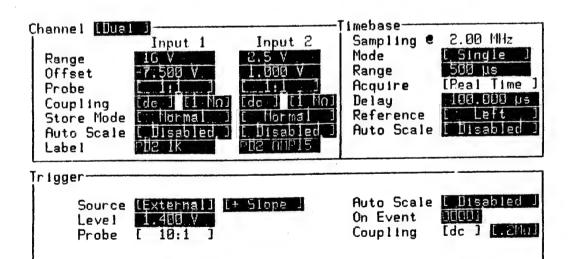


-----Status: Acquisition Complete----

- Width **II =** 61 μs

V min I = -5.69 V V max = Clipped

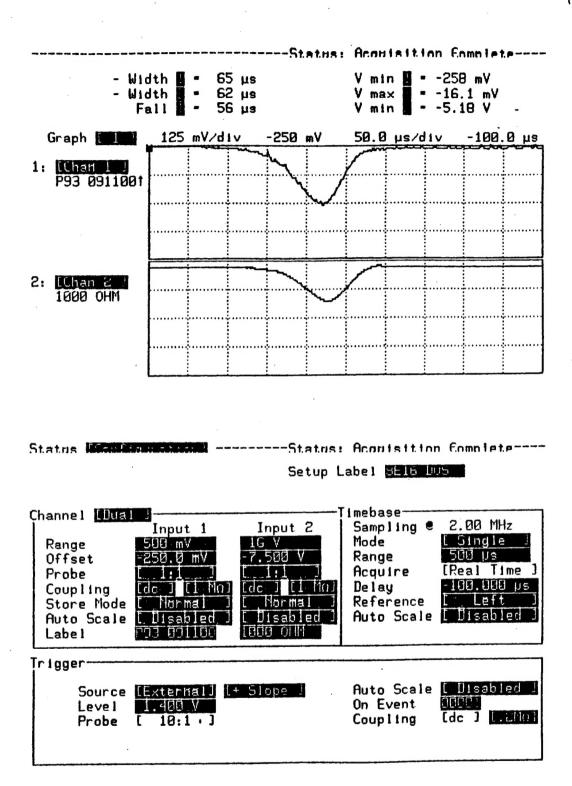


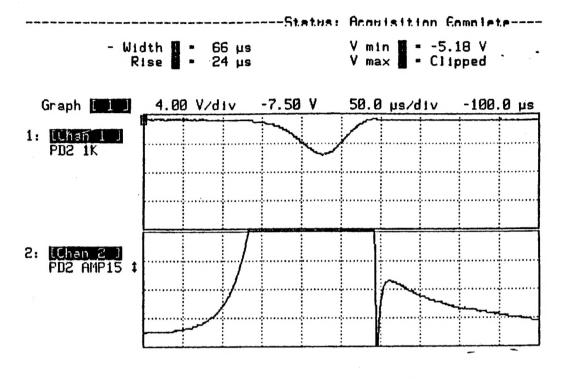


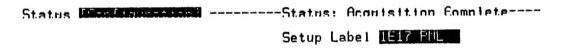
Pulse	No. <u>P93-91</u>				
	24 Tu 02				

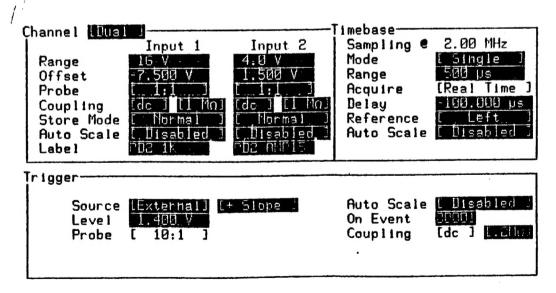
-			240	
Experiment	20' Dos.	Ap	proval HED/	DRH Dosimetry ON EXP.
Exp. Location	n 170 M	Di	st to RX C/L _	70 M EXP INSP BY DRH
RHD Track # ,	3 Height	20'4NI 51	st to Bldg Ctr	CTT RHD INSP BY MA
Rx Core_5	B GHL ON	B10 Shield	Safety To	ube ON RX. INSP BY DEN
RX Operator	DAK	HP Operat	or DCM	RX Supervisor DRA
RX Console C	heck	HP Consol	e Check	Log Book Reviewed
Clearance Re	quested /	APRF Area	Checked	Keys Accounted For
remarks: XZ				
Yield 8.2	X/0 <sup>16</sup> F	0 108.	40 c T_	<b>24</b> us ΔT7 /60 °c
Estimated Ex	cess 38 ED CRITICAL	c P	R(+,0,-) O	Kinetic Effect FAST PULSE
Time/at DG	1 25mm		Time	1257
SB	11.594		RR Cal	19.07 F/an
CRC # 1	6.5 x/13		RR Pos	5.600
CRC # 2	So X103		PM # 1	3443
Linear # 1	38 X/00		PM # 2	2457 24572
Linear # 2	1.53 X/0-8	<u> </u>	PR Insert	203,)
Log N	101	i	TC # 7	22,9
TC # 766	22.8	i	TC # 8	22,8
TC # 8	122.7	į	Avg PM's	244.75
MAR /1951	8.076		Operator S	Supervisor
RR 36.24	5,000		Remarks:	
Excess	37.54			
Operator PULSE	Supervis CALCULATION			
Avg SMP	91.77	> p	108,40	RR Crit Pos 5,600
ρ Withdrawn	14.30	_	106.07	RR Correction + , 122
PR Worth	106.07	$\frac{\Delta \rho}{RR''}$	2:33	RR Pulse 51122
Operator E	Nul_	KK"	19.07 Supervisor _	Millanell

PULSE WAT	(T			
1. Time Safety	block to Wit	hdraw	13	00
Total Wait T	2	5 30		
Calculated T	ime of Pulse		13	30
Countdown Ti	по			5
Calculated T	ime Safety I	lock to Ins	ert    3:	25
2. Temperatures	-SMP E	nd of Walt	p change, required /no	
TG 7 1	29	23.2	Δ 17	_•c
TC 8	2.3	23.1	Rod Withdrawn To	
		51	8. Pulse rod unlatch	ed
3. Clearance #	br reedy	N/A	9. Timer reset	
	erator ready		10. Fire alarm ready	
	od Heters re	MAN	11. Time SB to insert	: <u>V</u>
6. Pulse MODE	to be used		<b>-</b>	1325
		ready	12. No Trickle on 1850 approvisor EMAGNET	
Operator Nu				
PULSE	DATA		1. Time of Pulse	
Temperatures	TC 7	TC 8	2. Period: PH1 25,4	PH2 25.1
After PULSE	172.5	150,4	3. PR Insert time 20	07.0
At EON	23.2	23.1	4. AVE PH's 25,25 AT	
ΔŤ	14913	127.3	5. Half Width 65	KSec
Sulfur lactor	5./8	5.95		
Yield	7.73	7.57	6. Sulfur	
Ave Vield	7.65		1.147	
A COLUMN TO THE PARTY OF THE PA		"B" Tower	Notified Mans /1336	•
fire Alarm Ho	THAT	-	,	
Remarks:				
The state of the s	and the state of t			
per manufacture of the property of the period of the perio	The section of the contract of			
•				









Time above 350°C NONE Integrated Power (Instru) 60.0 KW-MIN
Duration of Operation 1200 SEC Integrated Power (Sulfur)
Remarks Coocing ON B Tower Notified No
Operator (sign) WF have Supervisor (sign) Whave Supervisor (sign)
STECS-NE Form 402 1 Oct 80 (Provious aditions of this form are obsolete)

RX Power

(revise	ADY STAT	89)		D	peration No. 5595-34  Date
Experiment X	7-93	DOSIM.	Approv	al HGT	DRH Dosimetry N/A
Exp. Location	400 1	4	Dist t	o RX C/L	MAXOUT EXP INSP BY HGD
RHD Track #	6_ Heig	ht 40/3	Dist t	o Bldg C	ter 149'10" RHD INSP BY HGD
Rx Core 5	CHL_	<i>ON</i> _B10	Shield_	<u>ON</u> Safe	ty tube ON RX. INSP BY HGD
RX Operator _	WFL	не ор	erator 1	CM/6	P RX Supervisor DRH
					Log Book Reviewed
Clearance # L	EMBOLD	T APRF	Area Che	cked _ L	Keys Accounted For
REMARKS: 4-	20 mR	Fem	A DE	TECTU	2S + GEIGER COUNTER
+ REM A	UETE	RO	400 M	1 5,7	E:
Reactor Power	Level Ro	equired Range 3 <u>x/</u>	2 KW/6	, <u>kw</u> Durat	Reactor Mode: SS PP  ion: 20/2 Omins (1200/1200 secs)  ated Peak Temperature 4300 6
1/e Level			<b></b>		Shutdown 1518 04
Time				0 —	1570
Linear Level	!	150004	1518	- 	
	138		<u>-</u>		
Linear Range		·			LINEAR # 3:
Log N	28	56		 	3 kw: 11.4 x 10-6
T/C # 7	50.2	149.2	240.1	l I	6 KW: 22.8×10-6
T/C #8	46.5	135.9	223.0		
SB	11.585				 
MAR	4.996	5.202	_		
RR	!	3.692	4.988		
RX Power	3KW				
Time above 350 °C NONE Integrated Power (Instru) 180.0 kw-MIN					

STECS-NE Form 402, 1 Oct 89 (Previous editions of this form are obsolete)

Supervisor (sign)

COOLING ON

PEREYMAN Notified PEMBOLDT 1520